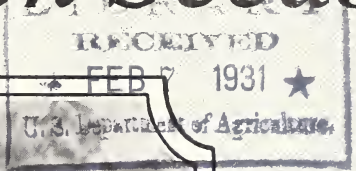


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62,21
Washburn-Wilson Seeds



1931

Distributed by

DUTHIE SEED COMPANY

LEWISTON, IDAHO

Our Seeds Grow Friends

Vegetable Seed Trials

Lee's Lively Chicks

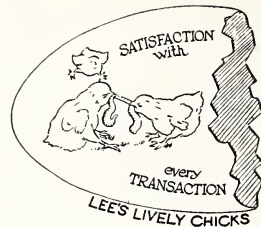
From our stores or direct from hatchery to you (express or parcel post, charges paid). No additional cost—quality counts.

1. Stock individually culled for type and vigor.
2. All culling stresses egg production and standard qualifications.
3. Rigid culling of hatching eggs and baby chicks.
4. Best modern scientific incubation.
5. All flocks B. W. D. tested.
6. Two thousand satisfied customers.
7. Ten years of business growth.

Unusual quality chicks in all classes—for egg production—for meat production—for exhibition stock—in 13 leading varieties. Regular mating prices to April 25th—discounts on later chicks.

	25 chicks	50 chicks	100 chicks
White Leghorns	\$4.50	\$ 8.50	\$16.50
Rhode Island Reds	5.00	9.50	18.50
Barred Rocks	5.00	9.50	18.50
White Rocks	5.75	11.00	21.00
Black Minorcas	5.75	11.00	21.00
White Minorcas	5.75	11.00	21.00
Buff Orpingtons	5.75	11.00	21.00
Anconas	5.00	9.50	18.00
Buff Leghorns	5.00	9.50	18.00
Brown Leghorns	5.00	9.50	18.00
Jersey Black Giants	6.25	12.00	23.00
White Wyandottes	6.75	13.00	25.00
Light Brahmas	6.75	13.00	25.00

The world's leading strains represented in each variety.



Each year we are selling to new customers who realize the importance of buying chicks of quality with breeding behind them. Give them a trial and you will be a booster for Lee's chicks.

We have sold these chicks for years. Last year we sold over 50,000 from our Lewiston store.

SEND COUPON TODAY

Mail this coupon for 1931 baby chick catalog.

Duthie Company,
Lewiston, Idaho.

Please mail as soon as ready the big illustrated 1931 baby chick catalog of Lee's Lively Chicks.

Name

Address

Suggestions as to Orders

We Prepay Postage on Shipments Where Specified to and Including The Third Zone.

Zone	Distance	First Lb.	Each Ad'l Lb.
1 and 2	150 miles.....	7c	1c
3	300 miles.....	8c	2c
4	600 miles.....	8c	4c
5	1000 miles.....	9c	6c
6	1400 miles.....	10c	8c
7	1800 miles.....	12c	10c
8	over 1800 miles.....	13c	12c

If you are located in the 4th postal zone, add 2 cents per lb. extra to your order for postage. The 5th zone will require 4c per lb. additional; 6th zone 6c; 7th zone 8c, and 8th zone 10c. You can easily determine the extra postage by adding

the total pounds and fractions on your order and include this as extra postage. Any postage not used will be remitted to you. Prices quoted in our catalog are fair to all as the customer located close to us will receive his goods at a lower net cost due to the difference in the postal rate.

QUANTITY RATES—Where 5 and 10 lb. prices are quoted on peas, beans, etc., you may take advantage of the quantity rate by including more than one variety to make 5 or 10 lbs. total.

PARCEL POST—All shipments of seed where possible are sent parcel post. The weight limit for zones 1, 2 and 3 is 70 lbs., for zones 5 to 8 inclusive, 50 lbs.

Poisons such as lead arsenate, Paris Green, etc., cannot be sent by mail. They are shipped by express.

INDEX

	Page
Alfalfa	35
Asparagus	2
Asters	20
Barley	39
Beans	24
Bee Supplies	40
Beets	4
Brome Grass	37
Brooder Heater	47
Brooders	47
Cabbage	6
Carrots	5
Casabas	11
Cauliflower	5
Celery	5
Cel-O-Glass	45
Clovers	36
Corn	39
Cucumbers	7
Cyanogas	44
Dill	8
Egg Plant	8
Endive	8
Fertilizers	41
Field Beans	40

	Page
Field Corn	39
Field Peas	39
Flax	40
Flowers, Alphabetical List	23-27
Fruit Trees	34
Fungicides	42
Garden Supplies	47
Gladioli	30
Grasses	37-38
Hardy Perennial Plants	28
Hotkaps	6
Incubators	47
Insecticides	42
Iris	29
Kale	8
Kentucky Blue Grass	38
Kohl Rabi	8
Lawn Grass	38
Leek	8
Lettuce	9
Lilies	29
Meadow Fescue	37

	Page
Muskmelons	10
Mustard	9
Oats	39
Okra	11
Onion Plants	12
Onions	12
Onion Sets	13
Orchard Grass	37
Ornamentals	31-32
Parsley	13
Parsnips	13
Peas	14
Peonies	29
Peppers	13
Petunias	22
Potatoes	19
Poultry Supplies	44-47
Pumpkins	15
Radishes	16
Rape	37
Red Top	37
Rhubarb	16
Roses	33
Rutabagas	16
Rye	39
Salsify	17

	Page
Seed Disinfectant	42
Seeder	35
Semesan	42
Sudan Grass	37
Sunflowers	39
Sweet Clover	36
Sweet Corn	7
Sweet Peas	21
Swiss Chard	6
Sodium Chlorate	43
Slender Wheat	37
Spinach	15
Sprayers	48
Sprays	42
Squash	17
Stock Beets	4
Timothy	37
Tomatoes	18
Trees	34
Turnips	19
Vegetable Plants	19
Vetch	36
Vines	33
Watermelons	11
Zinnias	22

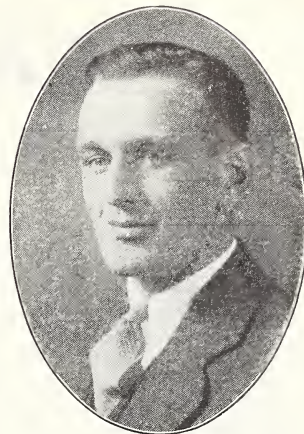
LET'S GET ACQUAINTED—Duthie Seed Company's Staff



J. E. KIMBERLING
Sales Manager
Formerly with Washburn-Wilson
Seed Co.



DORA KORTING
Office Mgr.,
Formerly with Washburn-Wilson
Seed Co.



KEITH SCHUMACHER
Chg. Shipping Department
Formerly with Washburn-Wilson
Seed Co.

Announcement



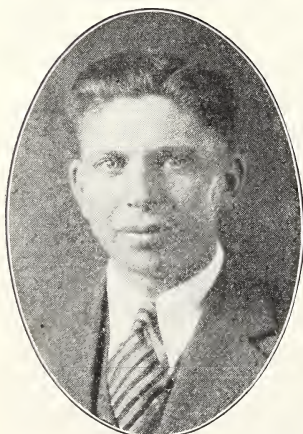
J. E. DUTHIE
General Manager

WE WISH to announce to our many seed friends that in order to spend our entire time to the production of better seeds and to have a more advantageous point of distribution that we have turned the wholesale and retail business, including the mail order business to the Duthie Seed Company, Lewiston, Idaho. This firm is well equipped to handle the business and will distribute our seeds to our customers in the northwest. Duthie Seed Company will operate a retail store in Moscow during the spring season which will take care of the retail trade in the Moscow territory. The wholesale and mail order business will be handled from Lewiston. We trust that you will continue to use our seeds and we will devote our entire time to production of better seeds. "OUR SEEDS GROW FRIENDS."

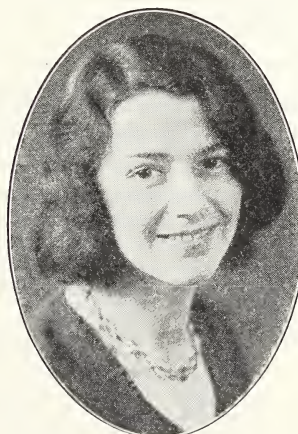
WASHBURN-WILSON SEED CO.



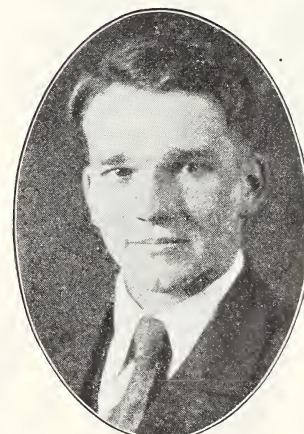
A. E. WADE
Seed Selection and Field Supervisor



J. W. COOPER
Warehouse Mgr.



LEONA BOGGAN
Bookkeeping Dept.



RALPH WADE
Asst. Shipping Dept.

GARDEN SEEDS

Asparagus



Mary Washington

One ounce of seed will produce 300 or more plants.

CULTURE—It will require two to three seasons to produce a marketable crop of asparagus from seed, but this method is often superior to root planting as better plants can be selected for the permanent bed. Asparagus grows better and produces earlier in the spring if planted in well-drained soil having a southern exposure. Plant eighteen inches apart in rows three and one-half feet apart.

MARY WASHINGTON SEED—A most remarkable, almost rust-proof Asparagus. This Asparagus, which has been selected by the United States Department of Agriculture, Washington, D. C., has proven to be nearly rust free. The plants form large clean shoots which are thick and heavy. They are long and straight, with closely folded tips. The color is rich dark green, tinted darker at the tips. It is a heavy yielder and a long-lived producer of exceptionally fine flavor. The performance of the 16-year-old mother plant of Mary Washington, which is still growing in the trial-grounds of the Department of Agriculture, is ample proof of the hardiness and longevity of this variety.

PALMETTO—One of the old standard varieties but widely used. The stalks are greenish in color and of excellent quality, maturing early.

Postpaid Prices, Third Zone

	Pkt.	1 oz.	2 oz.	1 lb.
Mary Washington	5c	20c	35c	\$1.75
Palmetto	5c	15c	25c	1.00

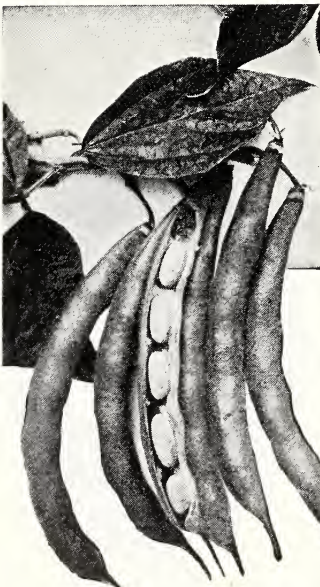
Beans

One pound will plant 100 feet of drill.

CULTURE—Plant in warm, loamy soil at the beginning of settled warm weather in spring at intervals for succession until August. Rows may be made two feet apart, and the beans planted two to four inches apart in the drills, or three or four beans in hills six to eight inches apart. Cultivate and hoe frequently when the vines are perfectly dry.

Green Pod Bush Varieties

EARLY RED VALENTINE—A choice variety for early use and the pods are green in color and of excellent quality, with few strings. A favorite for growth where moisture is limited.



Early Red Valentine



Burpee's Stringless Green-Pod

BURPEE'S STRINGLESS GREEN-POD—The finest green-pod bush bean in cultivation. This famous snap bean is unequalled. The plants are medium large, of somewhat spreading growth, with dark green foliage, and always of strictly bush form. The pods are medium in length, slightly curved, and are so thick, even when quite young, as to be double-barreled. The pods are an attractive rich green. Burpee's Stringless Green-Pod is enormously productive and combines this feature with hardiness and extreme earliness. The pods, even when fully grown, are meaty and juicy, lacking the faintest signs of any strings. They are tender, brittle, and of very fine flavor.

GIANT STRINGLESS GREEN-POD—The plants are of strong growth, making large and compact bushes, and bear a fine crop of pods. The pods are meaty, nearly round, brittle and stringless. This variety is somewhat similar to Burpee's Stringless Green-Pod, but matures a few days later. The pods are straight, quite long, and rather slender. The color of the pods is lighter than Burpee's Stringless Green-Pod and they show deeper depressions between the beans.

EARLY SIX WEEKS—One of the earliest green-pod varieties for the home gardener. The beans are of excellent quality if harvested when quite small but become pithy if large. A choice variety for early home use. Used in some short season sections in Idaho as a dry bean for winter use.

Treat your seed beans with Semesan to increase germination and vitality.

GREEN-POD BUSH VARIETIES—(Continued)

REFUGEE 1000 to 1—A late variety with green pods which are very slender and brittle, of good quality suitable for planting for late canning.

DWARF HORTICULTURAL (Stringless)—An excellent bean when young. Fine for snaps and green shell purposes. The thick, flat pods are $4\frac{1}{2}$ to 5 inches long and are green splashed with carmine. The dry bean is very rich flavored and is excellent for baking and cooking.

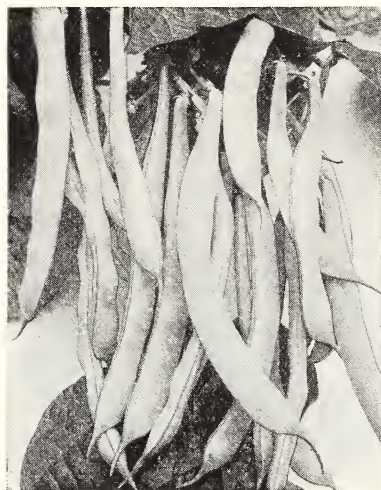
Wax Podded Bush Varieties

DUTHIE'S STRINGLESS WAX—A most prolific variety of superlative quality. The handsome rich yellow pods are slightly curved, averaging 6 to 7 inches in length. They are almost round, very meaty and sweet, and perfectly stringless at all stages. The habit of the plant is free branching, but sturdy and upright, every branch carrying a heavy crop of the magnificent pods. Valuable for its productiveness and disease-resisting qualities. It is classed as an early variety and has proven to be a quick seller.



Dwarf Horticultural

GOLDEN WAX—This variety is ready for use with Stringless Green Pod. The pods are medium in size, flattened and fleshy and of good quality. A good variety for the home garden.

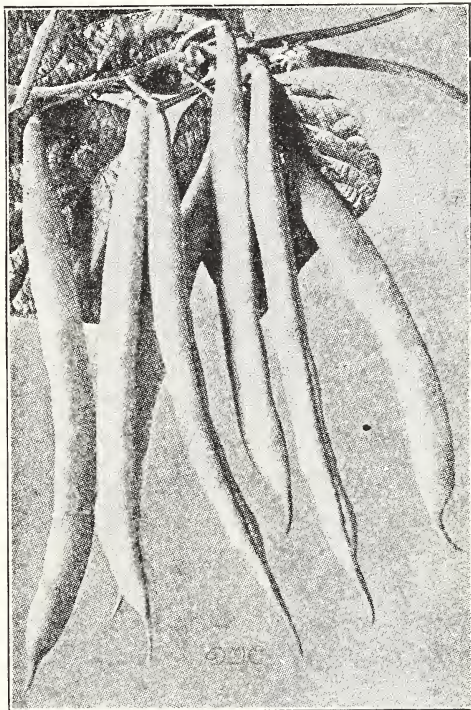


Golden Wax

PROLIFIC BLACK WAX—This black seeded bean produces a larger pod than the Pencil Pod Black Wax. The plants are medium early in maturity and are very productive.

PENCIL POD BLACK WAX—This black wax bean produces a very slender type of pod of excellent quality for canning and for market garden use. They are free of strings and are of rich flavor.

DAVIS WHITE WAX—This bean is among the earliest of the yellow pod varieties in maturity and produces large pods of excellent quality.



Duthie's Stringless Wax

Postpaid Prices, Third Zone.

	Cartons	$\frac{1}{2}$ lb.	1 lb.	5 lbs.	10 lbs.
All Bush Beans.....	15c	20c	35c	\$1.50	\$2.50

Pole and Climbing Beans

Green and Wax Pod Varieties

KENTUCKY WONDER or OLD HOMESTEAD—An early and fairly productive variety that climbs well and bears a fine crop of large green pods, 7 to 9 inches in length. They are thick and meaty, tender, brittle, and of good quality, showing slight strings as the pods reach full size.

OREGON GIANT—The large fleshy pods 10 to 12 inches in length are free from stringiness, tender, crisp and delicious. The size, splendid quality and rich flavor make this one of the most desirable beans for home gardens and for canning. "Oregon Giant" is a strong grower and yields heavily, bearing its enormous pods in great clusters. The color is light greenish yellow, splashed red.

LAZY WIFE—This bean has large oval white seeds. The plants are later in bloom than Kentucky Wonder; are suitable for green as well as for dry beans.

KENTUCKY WONDER WAX—A variety similar to the green pod Kentucky Wonder in habits of growth but the pods are bright yellow in color. The seeds are dark brown and somewhat wrinkled in appearance.

All Pole Beans, postpaid prices, third zone: Cartons 15c; $\frac{1}{2}$ lb. 20c; 1 lb. 40c; 5 lbs. \$1.50; 10 lbs. \$2.50.

for Better Vegetables

VIGORO
 Specially prepared plant food.

Lima Beans

IMPROVED BURPEE BUSH—A large seeded bush lima somewhat later in maturity than the Henderson bush. This bean will mature at lower elevations.

HENDERSON BUSH—A small seeded lima, very desirable for home garden where the season is somewhat short. It is very productive and the dry beans are in demand for market purposes.

POLE LIMA—A large seeded early variety suitable for planting where the season is long.

Postpaid Prices, 3rd Zone.

	Cartons	$\frac{1}{2}$ lb.	1 lb.	5 lbs.	10 lbs.
All Lima Beans	15c	20c	40c	\$1.75	\$3.00



Bush Lima

Beets

One ounce will sow 50 feet of drill; 6 to 8 pounds per acre.

CULTURE—For early table beets, have drills 16 to 20 inches apart, and sow the seed about one inch deep, as early as the ground can be put in good shape. Give thorough and clean cultivation, and thin the plants to stand 4 inches apart in the rows. For succession sow at intervals until middle of July. For the earliest sowing a light dressing of sulphate of ammonia; say 100 lbs. per acre, will work wonders.

Table beets should be grown in every garden as they are produced with little effort and supply the table with greens as well as with excellent roots.

Table Varieties

EARLY WONDER—A selection from Crosby's Egyptian which is becoming a favorite variety with the market gardener. The roots are somewhat flattened but uniformly dark red in color and of good texture. We recommend our stock for market garden trade.

EARLY BLOOD TURNIP—A globe-shaped variety which is somewhat flattened. The roots are bright red in color and of uniform texture.

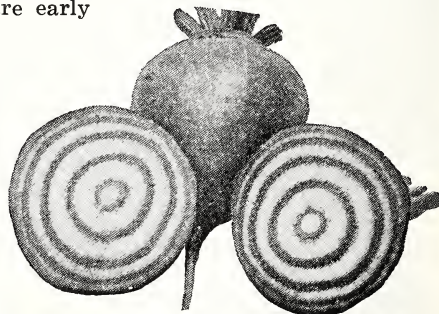
DETROIT DARK RED—One of the favorite varieties for canning and slicing. The roots are medium in size, and globe shaped and are early in maturity.

EXTRA EARLY EGYPTIAN—A popular variety used for early planting. The roots are distinctively flattened, the flesh dark red in color with zones of light red.

ECLIPSE—A cone shaped variety producing uniform roots of bright red color. The flesh is zoned with pinkish white layers.

Postpaid Prices, 3rd Zone

	Pkt.	Oz.	2 oz.	1 lb.	4 lbs.
All beets....	5c	15c	25c	\$1.00	\$3.60



Extra Early Egyptian

Stock Beets and Mangels

Early planting is important on non-irrigated land because of the difficulty in securing a satisfactory germination. The seed should not be planted too deep and the ground should be rolled after planting to pack the surface soil. Later planting can be done under irrigation with favorable results.

DANISH SLUDSTRUP—This Mangel grows a large portion of the root above the surface soil. The roots are reddish yellow in color, attaining a large size when fully matured.

GIANT INTERMEDIATE—A variety similar to the Sludstrup but generally considered of higher sugar content. Excellent for stock feed.

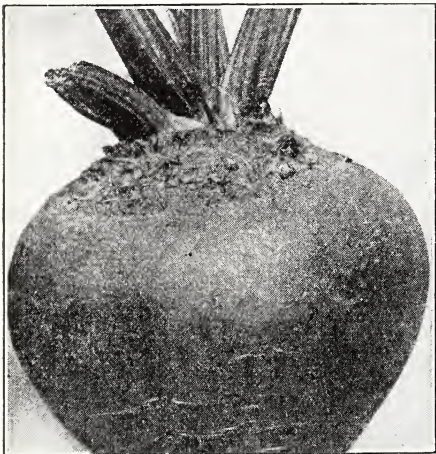
GOLDEN TANKARD—The roots of this Mangel are cylindrical in shape and of a deep orange color. This variety is rich in flavor and of high sugar content.

IMPROVED MAMMOTH LONG RED—This variety grows well above the ground and produces a dark red colored root. It is a favorite with many growers. Grows to immense size under favorable conditions.

GIANT HALF SUGAR ROSE—We consider this one of the best for stock feeders because of its yield and excellent feeding value. The skin is rose colored and the flesh white.

Postpaid Prices, 3rd Zone

	1 oz.	3 oz.	1 lb.	5 lbs.
All Mangels	10c	25c	80c	\$3.75



Early Wonder



Danish Sludstrup

Carrots

One ounce will sow 100 feet of drill; 3 to 4 pounds for an acre.

CULTURE—Some growers plant Carrots and Radishes in the same row, seeding them thin enough so that as the radishes are removed for early use, the carrots fill in the space and continue growing until fall. This conserves space in the small home garden.

Table Carrots

DANVERS HALF LONG—One of the most popular carrots because of its being well known. The roots are tapering from the shoulder and are bright orange in color. On heavy soils it is inclined to break off in harvesting. Where this difficulty is likely to occur, the Chantenay or Oxheart should be used.

CHANTENAY—We recommend this variety very highly for the market garden trade as well as for home use. The roots are tapering and stumped at the base making them more easily harvested in heavy soil. This variety is equal to the Danvers Half Long in quality and is productive.

OXHEART—A short stump rooted variety, very popular for planting on heavy soil. Also suited to early harvest for market purposes.

SCARLET HORN—This variety is very early and grown extensively for summer use. The roots are about two inches in length, reddish orange color and of choice quality.

HALF LONG NANTES—A handsome half long variety, almost perfectly cylindrical, blunt-ended, and with a very small tap-root. The carrots are 6 inches long and 1½ inches thick. Both the skin and flesh are bright orange-red. Sweet and very tasty.



Chantenay

Postpaid Prices, 3rd Zone

	Pkt.	1 oz.	2 oz.	1 lb.	5 lbs.
All Table Carrots.....	5c	15c	25c	\$1.00	\$4.50

Stock Carrots

LONG ORANGE—This variety is grown more extensively for stock feeding than the White Belgian and is very popular because of its color, size and yield. It produces a large root, growing entirely under the surface of the soil and produces a heavy yield where moisture is plentiful.

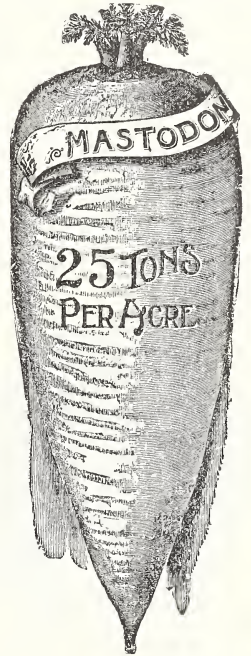
WHITE BELGIAN—As some growers prefer a white carrot, we offer this as the best variety for stock feeding. A portion of the root grows above the soil but is easily harvested and is of good feeding value.

LARGE YELLOW BELGIAN—This variety is very similar to the Large White Belgian but the skin is a pale orange color. The flesh is also light orange. A productive nutritious variety.

WHITE MASTODON—A field carrot of enormous productiveness, easy to harvest. Roots half long, smooth, very heavy at shoulder, tapering regularly to point; light green at the crown, white below; flesh white, solid, crisp, excellent flavor.

Postpaid Prices, 3rd Zone.

	Pkt.	1 oz.	2 oz.	1 lb.	5 lbs.
All Stock Carrots.....	5c	15c	20c	90c	\$4.25



Celery

One ounce will produce 5,000 plants.

GOLDEN SELF-BLANCHING—A very early variety, requiring little labor to blanch. The plants are stocky, medium in size, with golden heart and light yellowish green outer leaves. Very tender and crisp, in demand on the market.

Golden Self Blanching.....Pkt. 5c; 1 oz. 50c; 1 lb. \$5.00

WHITE PLUME—An early main crop variety, suitable for fall and winter use. The leaves are bright green with light tips, the inner leaves turning white as the plant matures.

White PlumePkt. 5c; 1 oz. 35c; 1 lb. \$3.00

Cauliflower

One ounce will produce 3,000 plants.

Our Cauliflower seed is imported.

CULTURE—For early cauliflower sow seed in hot bed and transplant to cold frame 2 inches each way. Set plants in permanent garden same as cabbage. To blanch draw leaves about the head; tie with tape.

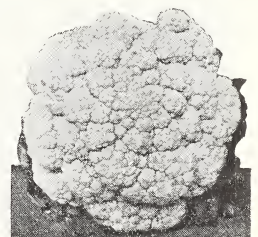


White Plume Celery

EARLY SNOWBALL—Our strain of Snowball is especially selected for uniformity, early maturity and quality. The heads are large, solid and suitable for early market use.

DANISH DRY WEATHER—While this variety is somewhat later than Snowball it is quite resistant to drought. It is equal in quality and yield.

All Cauliflower, Postpaid Prices: Pkt. 5c; ½ oz. \$1.00; 4 oz. \$5.00.



Early Snowball



Swiss Chard

Sow one ounce for 2,000 plants; four to six ounces for one acre.

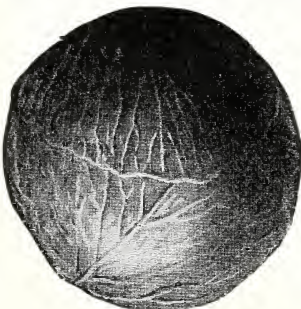
CULTURE—For plants of the earliest sorts, sow seed in January or February under glass and transplant into flats 2 inches apart. Set out as early as season will permit, spacing the plants 24 inches apart in the row and rows 3 feet to permit cultivation. For late plants, the seed may be sown as late as June.

EARLY JERSEY WAKEFIELD—One of the earliest varieties for market, producing conical shaped heads. While the heads of this cabbage are not as large as those of the Flat type yet it is valuable for its earliness.

EARLY WINNIGSTADT—This cabbage is similar to the Jersey Wakefield but the leaves are twisted toward the top of the head.

GOLDEN ACRE—We consider this the best variety for early market use. It is a selection from Copenhagen Market. The heads are round, very compact, solid and early in maturity.

COPENHAGEN MARKET—One of the standard varieties of flat headed cabbage for medium early use.



Danish Ball Head

EARLY FLAT DUTCH—This cabbage is similar in type to the Late Flat Dutch but has been selected for early maturity.

GLORY OF ANKHUIZEN—A medium early short stemmed variety with large round solid heads desirable for main crop planting where the season is short.

DANISH BALL HEAD—The most popular late variety; head round, firm, fine grained. A good keeper.

PREMIUM LATE FLAT DUTCH—An improved old standard variety. Sure header.

HOLLAND EXPORT—Excellent red.

CHINESE CABBAGE—Resembles Cos Lettuce.

Postpaid Prices, 3rd Zone

Cabbage	Pkt.	1 oz.	2 oz.	1 lb.
Early Jersey Wakefield	5c	25c	40c	\$2.50
Early Winningstadt	5c	20c	35c	2.00
Early Flat Dutch	5c	20c	35c	2.00
Copenhagen Market	5c	25c	40c	2.50
Golden Acre	5c	35c	50c	3.50
Late Flat Dutch	5c	25c	40c	2.50
Danish Ballhead	5c	25c	40c	2.50
Glory of Ankhuiizen	5c	30c	45c	3.00
Holland Export	5c	35c	50c	3.50

Chinese Cabbage, Pkt. 5c; oz. 55c; 1/4 lb. \$1.65; lb. \$5.50.

Swiss Chard

Four pounds per acre required.

Every home garden should contain a few rows of this leafy vegetable. The top only is suitable for food, using the tender leafy portion for greens. The plants grow rapidly and produce a good crop early in the spring before other leafy crops are ready. Poultrymen grow this crop for green feed for use during the early spring for stock not having access to open range.

LUCULLUS—This leafy variety produces large curly leaves with tender white stems. If cut often will continue to produce until hot weather.

Postpaid Prices, 3rd Zone

All Swiss Chard.....Pkt. 5c; 1 oz. 15c; 2 oz. 25c; 1 lb. 85c

Cabbage



Early Jersey Wakefield

EARLY FLAT DUTCH—This cabbage is similar in type to the Late Flat Dutch but has been selected for early maturity.

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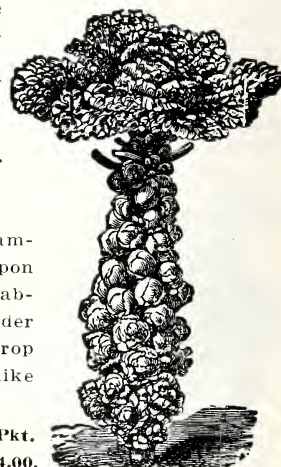
CHINESE CABBAGE—Resembles Cos Lettuce.

Brussels Sprouts

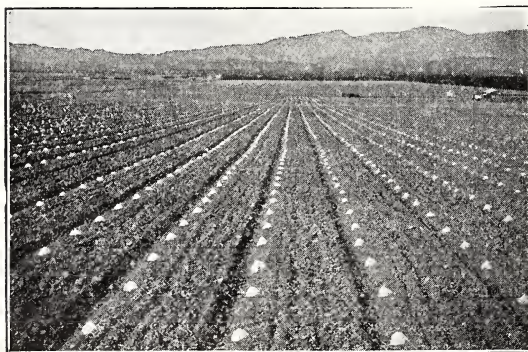
A member of the cabbage family, producing a tall stalk, upon which are borne many small cabbage-like heads. A very tender and palatable vegetable. The crop should be grown and handled like a late variety of cabbage.

Postpaid prices, 3rd zone: Pkt.

5c; 1 oz. 30c; 3 oz. 85c; 1 lb. \$4.00.



Protect Plants for Profit



Germaco
Hotcaps
New Method of
Plant Protection

New method of plant protection. Eliminate most of the risk in growing vegetables.

Germaco Hotcaps can make you extra dollars this season. They protect your tender plants from frost, wind, rain, hail and insects. Plants grow faster and yield larger crops for early market. One man can set 3000 Hotcaps a day.

PRICES—1,000 lots, \$11.50; 5,000 lots, \$11.00 per 1,000; 10,000 lots, \$10.75 per 1,000; 250 Trial Package, including Garden Setter with Tamper, \$4.00; 100 Home Package, including Garden Setter with Tamper, \$2.50; Germaco Hotkap Steel Setter, \$2.50; postage extra.

Weight—1,000 package HOTCAPS, 26 lbs.; 250 package, 9 lbs.; 100 package, 5 lbs.; Steel Hotkap Setter, 3 lbs.

Cucumbers

One ounce will plant fifty hills; two pounds will plant one acre.

CULTURE—For very early cucumbers, sow April 1st, in a hotbed upon pieces of sod (grass side down), so that they can be readily transplanted to the open ground, in rich soil, when danger of frost is over, or protect by single window panes. For early use, plant if the weather has become settled and warm, in hills 4 to 6 feet apart each way; thin out to four of the strongest plants to each hill, after all danger of insects is over. Cucumbers should be gathered when large enough for use, whether required or not, if left to ripen, it destroys their productiveness.

BOSTON PICKLING—One of the best known varieties for general use. The fruits are short, of medium size and suitable for pickling as well as slicing. Is early and very productive.

DAVIS PERFECT—We recommend this variety as one of the best general purpose cucumbers. The fruits are dark green in color tapering toward the ends, of good size and excellent quality. A choice variety for market.

EARLY CLUSTER—The fruits of this variety are small in size and desirable for pickling.

LEMON CUCUMBER—A variety with lemon shaped fruits and medium early in maturity.

JAPANESE CLIMBING—This variety is often used for planting along fences and trellis as it produces long runners. The fruits are of excellent quality for pickling and salads.

Postpaid Prices, 3rd Zone

Pkt. 1 oz. 2 oz. 1 lb. 5 lbs.

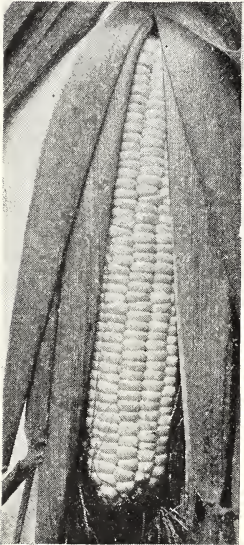
All Cucumbers.....5c 15c 25c \$1.25 \$6.00



White Spine Cucumbers

IMPROVED WHITE SPINE—One of the earliest of the Spine varieties with medium large fruits of mild flavor and crisp quality.

IMPROVED LONG GREEN—This variety is generally grown for commercial use as a slicing cucumber. It is medium late in maturity, the fruits are long and tapering and of dark green color.



Early Evergreen

Sweet Corn

One pound will plant about 100 hills; eight lbs. per acre.

CULTURE—While the sweet varieties mature earlier than field corn, it is well to take some risk in early planting. Plant as early as the ground can be worked into good condition, as a slight frost will do but little damage to the plants. The early corn can be forced to supply the early market and by successive planting, produce throughout the latter part of the summer. The seed should be planted in hills 3 feet apart each way, covering just deep enough to insure moisture for germination. If planted early, increase the number of grains to the hill and later thin to 3 or 4 plants to the hill.

It is advisable to sow several short rows in planting any variety to insure better fertilization and development of ears, rather than a single row across the garden. An early variety planted about every two weeks during the early part of the season will give a long harvest period. In case it is desired to plant the entire crop early, the proper choice of varieties will produce a successive crop.

For a succession throughout the season we recommend planting the following varieties all at the same time as soon as weather will permit: Peep O'Day, Golden Bantam, Howling Mob or Golden Giant, Country Gentleman and Stowell's Evergreen.

PEEP O'DAY—While this variety of corn is very small in size it is the earliest variety we have found for home use. Several ears are produced on each stalk and the corn is very sweet in flavor.

WHITE COB CORY—Our strain of Cory is only a few days later in harvest than the Peep O'Day and is desired by many because of the larger sized ears. An excellent variety for early market.

EARLY MINNESOTA—One of the old standard varieties for home use. It is slightly earlier than Golden Bantam, producing large white ears.

EARLY EVERGREEN—Our strain of Early Evergreen is ready for market at the same time as Golden Bantam. The ears are long, with medium deep kernels. Fine for commercial market.

GOLDEN BANTAM—By far the most popular variety for home gardeners and commercial use. The stocks are medium tall with ears from six to seven inches long, generally producing eight rows of corn. The corn is a beautiful golden yellow color and is very highly flavored.

BLACK MEXICAN—Many market gardeners prefer Black Mexican for market following Golden Bantam. The matured grains are purple in color but are white when the corn is in proper condition for market.

STOWELL'S EVERGREEN—This late variety is used for late market. It is often planted for stock feed in the early fall. The stalks are very leafy, medium tall and excellent for stock feed.



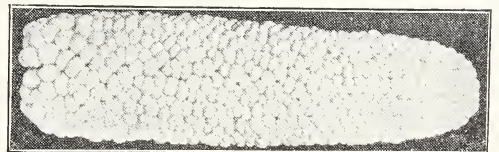
Golden Bantam

COUNTRY GENTLEMAN—This late variety will not mature at higher elevations but can be grown for late market use in irrigated sections at low elevations. The grains are produced in irregular pattern on the cob.

GOLDEN GIANT—Follows Golden Bantam in harvest. Plants are larger; from ten to twelve rows of kernels. Excellent market variety.

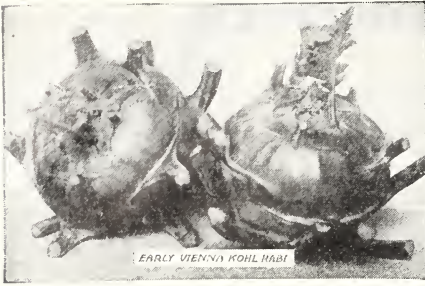
Postpaid Prices, 3rd Zone

All Sweet Corn Carton ½ lb. 1 lb. 5 lbs. 10 lbs.
Varieties15c 20c 30c \$1.35 \$2.50



Country Gentleman

Kohl Rabi



We suggest using Kohl Rabi in place of Turnips where the soil is infected with worms as this turnip-like plant is not damaged to any extent.

EARLY WHITE VIENNA—The skin of this variety is light in color and the flesh white. It is very early in maturing and has a fine flavor.

PURPLE VIENNA—Similar to the White Vienna in maturity, but the skin is of a deep purplish color, the flesh white.

Postpaid Prices, 3rd Zone

Pkt. 1 oz. 2 oz. 1 lb.

All Kohl Rabi5c 20c 35c \$2.00

Leek

One-half oz. will plant 100 ft. of row; 4 lbs. per acre.

CULTURE—The Leek plant is closely related to onions and should be planted in the same manner. Sow the seed early in the spring on a very fine compacted seed-bed, drilling the seed in rows just far enough apart to cultivate easily. Thin the plants to 8 inches in the row.

MUSSELBURG—A hardy variety with fan-shaped leaves of very dark green color, a choice variety for soups, etc.

Postpaid Prices, 3rd Zone

Pkt. 1 oz. 2 oz. 1 lb.

Musselburg10c 30c 50c \$3.00

Endive

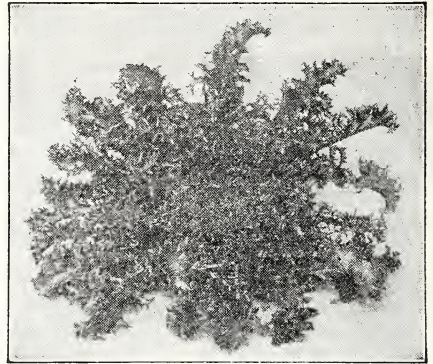
One oz. will plant 100 ft. row; 4 pounds per acre.

CULTURE—Endive makes a very fine salad, as the leaves are very tender, crisp, with a pleasant flavor. May be used as trimming for fancy dishes in same manner as lettuce. Plant the seed in the permanent row early in the spring and thin to space the plants about 2 inches in the row. After the plants form a compact leaf growth, pull the outer leaves up around those in the center and tie with cord to assist in bleaching out the inner leaves.

GREEN CURLED—The leaves of this variety are deep green in color with white ribs. When the plants are tied into a compact mass, the leaves blanch to a creamy white.

Postpaid Prices, 3rd Zone

Green Curled.....Pkt. 5c; 1 oz. 15c; 2 oz. 25c; 1 lb. \$1.50



Green Curled Endive

Kale

One-fourth ounce will plant 100 ft. row; 2 lbs. per acre.

CULTURE—Kale may be planted in succession for table use or as green feed for poultry. Drill the seed in a well prepared seed-bed, thinning the plants to 12 inches apart in the row.

DWARF CURLED—The most desirable variety for table use, as the leaves are tender and of fine quality.

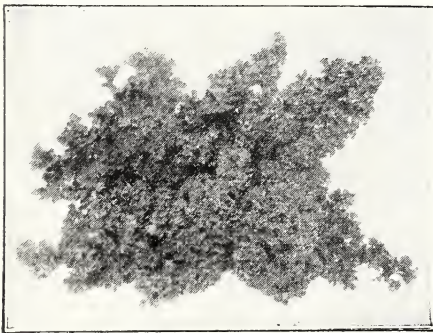
MAMMOTH—A rank growing variety producing an abundance of foliage, well suited for summer pasture or winter feed for poultry.

Postpaid Prices, 3rd Zone

Pkt. 1 oz. 3 oz. 1 lb.

Dwarf Curled5c 15c 40c \$1.50

Mammoth5c 15c 35c 1.00



Dwarf Curled Kale

Egg Plant

One ounce will furnish about 2,000 plants.

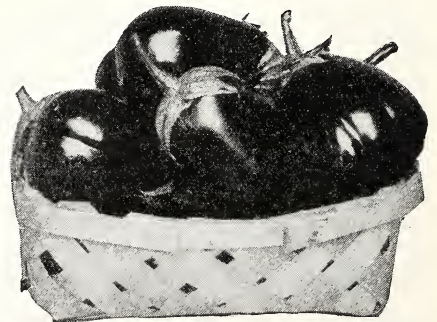
CULTURE—Start the plants under glass in hotbed and transplant to field after all danger of frost is over. Space the plants 24 inches in the row and rows wide enough to cultivate. Fertilize the soil with Fertilo (4-8-5) using about 500 lbs. per acre.

BLACK BEAUTY—The fruits of this variety are very dark in color and they are earlier than those of the New York Purple.

NEW YORK PURPLE—One of the main market garden varieties, with large oval fruits of deep purple color.

Postpaid Prices, 3rd Zone

All Egg PlantPkt. 5c; 1 oz. 40c; 3 oz. \$1.00; 1 lb. \$5.00



Black Beauty Egg Plant

Lettuce

¼ oz. will plant 100 ft row; 2 to 3 lbs. per acre.

In producing head lettuce for the commercial market it should be planted very early in the spring thinning the plants just as soon as possible so that they will head properly. If the plants are spaced about one foot apart in the row and weather conditions are satisfactory, they will head rapidly. It is advisable to fertilize head lettuce with Sulphate of Ammonia after they have been thinned, to hasten growth. In some localities early fall seeding can be made so that the crop can be harvested in October or early November.

BLACK SEEDED SIMPSON—A leaf lettuce of early maturity with very crisp light green leaves and black seeds.

EARLY CURLED SIMPSON—This white seeded variety produces very curly light green leaves of fine quality. A favorite for early garden use.

GRAND RAPIDS—Market gardeners growing lettuce under glass generally prefer this variety. The leaves are long, golden green in color, very crisp and tender. It can also be grown out-of-doors but is likely to burn if the weather is extremely hot.

PRIZEHEAD

—This lettuce is a better leaf variety than it is for heading. The leaves are of medium green color tinged with brown toward the outer edge. The heads are very loose and open. It is a choice variety for early spring use.



Special New York

The heads are very loose and open. It is a choice variety for early spring use.

HANSON HEAD — We recommend Hanson Head for the home garden as the heads are very select and of fine quality. It is lighter green in color than the New York head but does not stand shipment well.

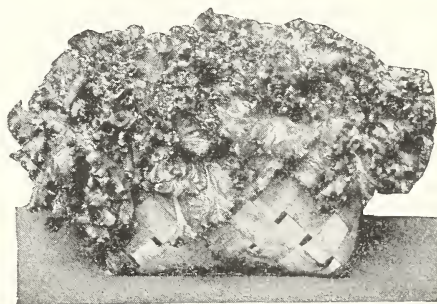
SPECIAL NEW YORK—We are certain that you cannot find a better stock of lettuce than our SPECIAL NEW YORK strain. All of our seed has been selected for uniformity of type, quality and yield and comes direct to us from our special grower in sealed bags. We can supply it to you in pound quantities or larger amounts under our own seal so that we are sure of genuine "SPECIAL NEW YORK."

NEW YORK NO. 12—Developed from a single plant selection and has been carefully propagated to prevent mixture with other strains. It is a great improvement over the ordinary New York, being earlier producing large solid heads of the flat type.

CHICKEN LETTUCE—A large rank-growing lettuce developed especially for poultry feed. It can be sown in the garden and cut for poultry use or planted in the poultry yard allowing the poultry to harvest it when ready.

PARIS COS—A compact headed variety with large oval shaped leaves. This variety is used for salads and has a distinct flavor.

	Pkt.	1 oz.	3 oz.	1 lb.	5 lbs.
Black Seeded Simpson	5c	15c	40c	\$1.00	\$4.50
Early Curled Simpson	5c	15c	40c	1.00	4.50
Grand Rapids	5c	20c	45c	1.25	6.00
Prizehead	5c	15c	40c	1.00	4.50
Hanson Head	5c	15c	40c	1.00	4.50
Special New York	5c	25c	60c	2.15	10.00
New York No. 12	5c	30c	75c	3.50	15.00
Chicken Lettuce	5c	20c	45c	1.50	6.00
Paris Cos	5c	20c	45c	1.25	6.00



Grand Rapids



Mustard

Mustard

One ounce will plant 100 ft. of row; three lbs. per acre.

CULTURE—Mustard may be sown early and in succession for continuous crop. Sow in rows on a fine but firm seedbed, thinning the plants to 4 inches in the rows. The tender leaves may be cut from the stalks and by careful harvest will reproduce for later crop. A fine succulent vegetable for greens and salad.

GIANT SOUTHERN CURLED—An excellent variety for greens. It makes a rapid growth of tender, spicy leaves, retaining its crispness until nearly matured.

Postpaid Prices, 3rd Zone
Mustard.....Pkt. 5c; Oz. 10c; 3 oz. 25c; 1 lb. 85c

Muskmelons

One ounce will plant about 50 hills; two to three lbs. in hill per acre.

CULTURE—Melons thrive best in a light rich soil. Plant early in May, when the ground has become warm and dry, hills 5 to 6 feet apart each way for muskmelons, 8 to 10 feet for watermelons. Previous to sowing the seed, mix a shovelful of well rotted manure in each hill, and plant in each 12 to 15 seeds, after all danger of bugs is over, thin out to three or four plants per hill. A few hills for early use may be had by sowing on pieces of sod in a hotbed, and when warm enough transplant to open ground.

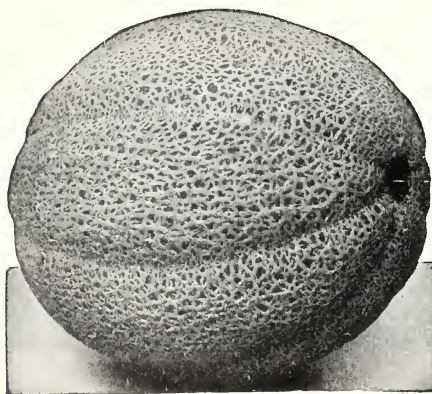


Rockyford or Netted Gem

HEARTS OF GOLD—A delicious melon maturing in mid-season with fine shipping qualities. The fruits are oval with distinct ribs and netting over the surface. The flesh is very thick, of beautiful gold color with a small seed cavity.

BANANA—Banana melon receives its name because of its shape tapering toward the end. The skin is lemon yellowish color and the flesh is pink and of delicious flavor.

HONEY BALL—It was developed by crossing the Casaba with the Cantaloupe. The flesh is greenish in color with texture and flavor of the Casaba. It is a good shipping melon.



Hale's Best

POLLOCK 10-25—One of the best melons for early commercial use. It is similar to Rockyford on the surface while the inside color is greenish with salmon tint.

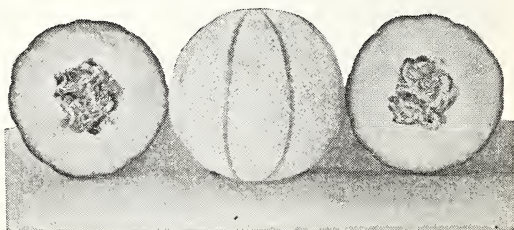
GOLD LINED ROCKYFORD—A main crop variety of delicate flavor. It is similar to Rockyford but the flesh has a salmon tint near the seed cavity.

EXTRA EARLY HACKENSACK—A green fleshed melon of medium size, used generally in the home garden. The fruits are flattened and distinctively ribbed and of good quality. Not a good shipping melon.

BURRELL'S GEM—Our Burrell's Gem has been selected for true-ness to type and uniformity in size. The melons are oval in shape with thick orange flesh. A fine main crop for commercial planting.

ROCKYFORD OR NETTED GEM—One of the old standard mid-season commercial melons. The fruits are oval round in shape with distinct netting over the surface. The flesh is green in color and of delicate flavor.

OSAGE or MILLER'S CREAM—A rather late variety ideal for home use. Fruits are egg shaped having salmon color flesh.



Hearts of Gold

HALE'S BEST—The earliest maturing of all large melons. The fruits mature to luscious sweetness in 68 days after planting. The melons are oval but inclined to produce some fruits of somewhat more elongated shape. The popularity of Hale's Best is due to its earliness and to the sweet tasty flavor of its beautiful salmon flesh.

IMPROVED YELLOW CANTALOUPE—An oblong melon with deep ribs and pink flesh. Grown extensively for home garden use.

Casabas and Honeydews

GOLDEN BEAUTY—A globe shaped Casaba with wrinkled skin. The fruit has a golden yellow color and the flesh nearly white. While rather late in maturity it keeps well in storage for late fall use.

HONEYDEW—The skin of this melon is somewhat of a creamy yellow color, the flesh light green and of delicious sweet flavor. A late variety but a good keeper.



Honey Dew

	Pkt.	Postpaid Prices, 3rd Zone			
		1 oz.	2 oz.	1 lb.	5 lbs.
Pollock 10-25	5c	15c	25c	\$1.00	\$4.75
Gold Lined Rockyford.....	5c	20c	35c	1.50	6.25
Extra Early Hackensack....	5c	15c	25c	1.00	4.75
Burrell's Gem	5c	20c	35c	1.50	6.25
Rockyford	5c	20c	35c	1.25	5.00
Osage	5c	20c	35c	1.25	5.00
Hearts of Gold.....	5c	20c	35c	1.50	6.25
Banana	5c	20c	25c	1.25	5.00
Honey Ball	5c	20c	35c	1.50	5.25
Imp. Yellow Cantaloupe.....	5c	20c	35c	1.25	5.00
Golden Beauty	5c	20c	35c	1.50	6.25
Honey Dew	5c	20c	35c	1.50	6.25
Hales Best	5c	20c	35c	1.50	6.25

Watermelons

1 oz. will plant about 50 hills; 3 to 4 lbs. per acre

KLECKLEY'S SWEET—One of the best commercial melons because of its shipping qualities and yield. The melons are oblong in shape with uniform dark green skin and dark red meat.

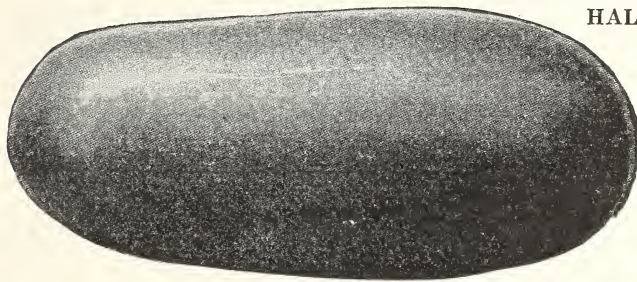
ICE CREAM OR PEERLESS—This is a white seeded melon and is similar in shape to the Kleckley. The skin is light green in color and mottled, the flesh is of bright red color.

KING AND QUEEN (Black Seeded Ice Cream)—This melon is generally planted for late summer use and will keep well until late fall if stored in a cool dry place. The melons are oval in shape with light yellowish green skin, brilliant red flesh and dark seeds.

PHINNEY'S EARLY—A desirable early melon for home use. Is oblong in shape with mottled green rind and bright red flesh.

ANGELINO—Slightly oblong melon with thin tough rind of dark green color. Flesh is deep red, very sweet and making a popular melon for general market.

BLACK SEEDED CHILIAN—We consider this variety one of the best for the home garden as it is medium in size, round with deep green colored skin striped with lighter green and bright red flesh. A very sweet, juicy melon.



Kleckley's Sweet Melon

GOLDEN HONEY—Many growers prefer this yellow fleshed melon because it adds variety to their planting. Melons are about the size of the Kleckleys with mottled skin and golden yellow flesh. While the meat is somewhat coarse in texture the flavor is very sweet. The seed of this melon does not produce a perfect stand of yellow melons as some red fleshed melons will occasionally develop.

KLONDIKE—This melon is used by many home gardeners and as a commercial melon. It has a very firm flesh of high quality and stands shipment well.

	Pkt.	1 oz.	2 oz.	1 lb.	5 lbs.
All Watermelons except.....	5c	15c	25c	\$1.00	\$4.50
Stone Mountain.....	5c	20c	35c	1.50	7.00

Postpaid Prices, 3rd Zone



Halbert Honey Melon

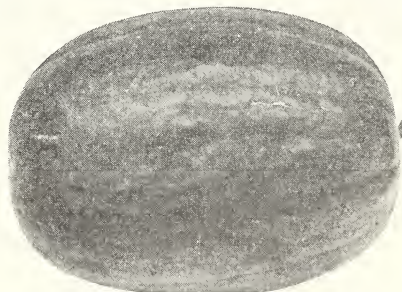
STONE MOUNTAIN—We are offering this splendid new variety this year for the first time. It is a wonderful new melon, rather oblong in shape, light grey in color, with delicate white seeds. It has only about half as many seeds as other varieties. Its growth in popularity has been phenomenal. You should plant some of these. They are simply delicious.

HALBERT HONEY—A variety largely used by market gardeners. Flesh is bright red with a deep green colored skin. A good shipping melon.

COLE'S EARLY—A small round melon which will ripen where the season is very short.

GEORGIA RATTLESNAKE—A rather late variety with mottled skin and good flavor. Generally planted in sections where the growing season is long.

TOM WATSON—A standard cylindrical melon of large size and fine shipping quality.



Golden Honey Melon

Okra

2 ounces for 100 foot row.

Okra is a fine vegetable for use in soups and as a green vegetable. Should be planted after frost is over, thinning the plants early. The pods should be harvested before they become fibrous and woody.

WHITE VELVET—A taller variety maturing early. The pods are somewhat white in color and are long, smooth and tender.

DWARF GREEN—A very compact growing, heavily branched variety, producing a mass of pods. It is very early in maturity and the pods are of fine quality.

Postpaid Prices, 3rd Zone
All Okra.....Pkt. 5c; Oz. 15c; 2 oz. 25c; lb. \$1.00

Our stocks of seed are selected for the critical market garden trade and we are anxious for you to use them. Prove to your satisfaction that they are better than the ordinary seeds often found on the market.

If you use larger quantities of seed than are priced in our catalog, write us for delivered prices on larger quantities.

Our service department should be able to help you. write us about your problems.

Onions



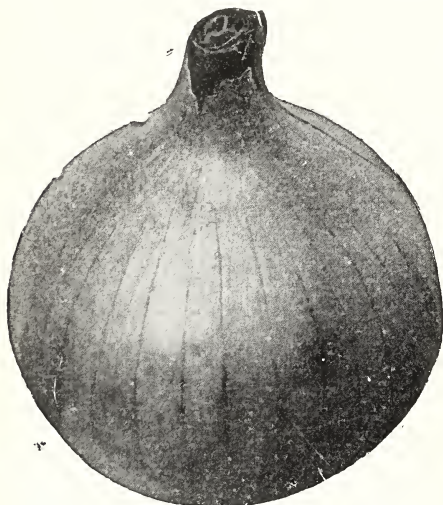
Oregon Yellow Globe

OREGON YELLOW GLOBE—We recommend highly our stock of Oregon Yellow Globe as all of the seed bulbs were selected for uniformity, mild flavor and keeping qualities. It is as satisfactory for commercial planting as Mountain Danver and superior to the Yellow Globe Danvers.

RED WETHERSFIELD—An old but popular onion, rather flat in shape, deep purplish-red in color. Noted for its keeping quality.

PRIZETAKER—A fine onion for planting on irrigated land. The bulbs grow to a large size, usually weigh two to three pounds. The flesh is pure white and the skin a light yellow. A fine onion for shipping or storage.

SOUTHPORT WHITE GLOBE—A mild flavored onion of globe form with thin paper white skin.



Prizetaker

One-half ounce will plant 100 ft. of row; four pounds per acre.

CULTURE—Onions require a very finely prepared seed bed well enriched and with moisture near the surface. It is useless to plant seed in a loose, cloudy seedbed as the seed will not germinate, as only a thin stand of weak plants will result. They should be planted early and at a depth of one half to one inch, pressing the soil firmly over the seed.

AUSTRALIAN BROWN—An old favorite variety desired because of its keeping qualities. The skin is very dark brown in color and flavor fairly mild.



Red Wethersfield

SOUTHPORT YELLOW GLOBE—This globe shaped variety is rather late in maturity and has a mild flavor and is a good keeper.

YELLOW GLOBE DANVERS—One of the most popular varieties for general home use. It is very productive and keeps well. Our seed is produced from highly selected bulbs and is superior to the ordinary onion seed often listed.

YELLOW FLAT DANVERS—Some growers prefer the flat type of onion and we offer this stock of seed for your requirements.

WHITE PORTUGAL OR SILVERSKIN—This onion is a flat bulb with silvery white skin. It is grown for early green onions and pickling. Market gardeners plant this variety in mid-summer allowing it to grow through the winter for the development of green onions for early spring use.

SWEET SPANISH—One of the best commercial onions for irrigated sections where the growing season is long. It produces a white onion and a light yellow skin. Our seed stock has been selected especially for the market garden trade.

GIANT GIBRALTAR—This commercial onion is similar to the Sweet Spanish with light color skin and very mild flavor.

Postpaid Prices, 3rd Zone

	Pkt.	1 oz.	3 oz.	1 lb.	5 lbs.
Australian Brown.....	5c	15c	40c	\$2.00	\$9.75
Oregon Yellow Globe.....	5c	15c	40c	2.00	9.75
Red Wethersfield.....	5c	15c	40c	2.00	9.75
Prizetaker or Denia.....	5c	20c	50c	2.50	12.00
Southport White Globe.....	5c	25c	60c	3.00	14.50
Southport Yellow Globe.....	5c	20c	50c	2.50	12.00
Yellow Flat Danvers.....	5c	15c	40c	2.00	9.75
Yellow Globe Danvers.....	5c	15c	40c	2.00	9.75
White Portugal	5c	25c	60c	3.00	14.50
Giant Gibraltar	5c	25c	60c	3.00	14.50
Sweet Spanish.....	5c	25c	60c	3.00	14.50

Onion Plants

Grow your onions the New Way, by planting small Bermuda plants. These small plants are produced in Texas by planting the seed early in the spring and as soon as the plants have grown to a height of 6 inches, the plants are pulled, the tops cut off and packed in bundles of 100 plants each. These plants are then sent through by fast express and are ready for planting. Many growers used them last season in place of seed and are more than satisfied. The plants were set out in April and onions weighing 4¼ lbs. were produced by August 1st, with only 2 inches of rain during the period. These Bermuda onions are large, flat in shape and of mildest flavor.

Bermuda onion plants should be grown for late summer use as they do not keep well during the winter season. There is little difference between the two varieties so far as yield and flavor is concerned. The Bermuda has a yellow skin while the Crystal Wax has a silvery white skin. In filling orders we do not distinguish between the two except where your order specifies a certain variety.

Prices of Bermuda, Crystal Wax, or Prizetaker Plants, Delivered, 3rd Zone

200 Plants	\$.45
500 Plants	1.00
1,000 Plants	1.85
6,000 Plants	9.00



Young Bermuda Plants

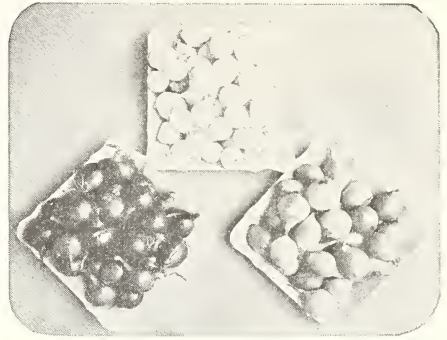
Onion Sets

YELLOW STRASSBURG—We have found this variety produces the best quality of sets as the onions are firm and uniform in size and free of dry wrinkled tops. These sets will develop into good onions for summer use if the seed stalks are pinched out while young.

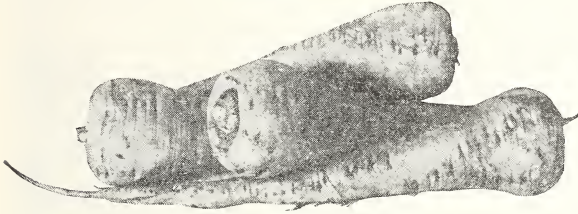
WHITE PORTUGAL — Our white onion sets are of small size and of very best quality.

Postpaid Prices, 3rd Zone
All Onion Sets.....1 lb. 25c; 2 lbs. 35c; 5 lbs. 80c; 10 lbs. \$1.50

If you do not specify a certain variety we will fill your order with Yellow Strassburg sets.



Onion Sets



Hollow Crown Parsnips

Parsley

MOSS CURLED—A compact growing sort with leaves of dark green color, very finely cut and closely curled.

Postpaid Prices 3rd Zone
ParsleyPkt. 1 oz. 2 oz. 1 lb.
.....5c 15c 25c \$1.00

Parsnips

One-half ounce will plant 100 ft. of row; three pounds per acre.

CULTURE—Sow as early in the spring as the weather will permit, in drills 18 inches apart and 1¼ inches deep, in a rich deep soil; thin out 3 to 6 inches apart in rows, the quality of the roots is improved by leaving them in ground over winter for spring use. Secure enough in pits or cellars in the fall for immediate needs.

HOLLOW CROWN—A very popular one for market and home use. The roots are large, tender, crisp and very sweet in flavor.

Postpaid Prices, 3rd Zone
Parsnip.....Pkt. 5c; oz. 15c; 2 oz. 25c; lb. 90c

Peppers

One ounce will produce about 1,500 plants.

CULTURE—Pepper plants should be started in the hotbed or cold frame in early May, so as to be ready for transplanting by the time killing frost is over. Set out in clean soil, well fertilized, spacing the plants about 2 feet apart in the row.

LONG BELL or BULL NOSE—The fruits of this pepper are large, crimson in color and very mild in flavor. They mature early and are in demand for market use.

PIMENTO—A thick fleshed, heart shaped pepper of mild flavor. The fruits are long and slender and are much used for salads. This variety is rather late in maturity.



Chinese Giant

RUBY KING—A very satisfactory variety for home and market gardeners. The plants are early, dwarfed in habits of growth, the fruits large with thick flesh, very sweet and mild and of bright red color.

CHINESE GIANT—One of the largest varieties of peppers. The fruits are thick, bulky, and of large dimension and medium early in maturity.

LONG RED CAYENNE—A hot, spicy pepper producing long, slender fruits which are twisted at the end. Medium late in maturity.



Long Red Cayenne Peppers

Postpaid Prices, 3rd Zone

	Pkt.	1 oz.	3 ozs.	1 lb.
Bull Nose	5c	50c	\$1.25	\$6.00
Pimento	5c	50c	1.25	6.00
Ruby King	5c	45c	1.10	5.00
Chinese Giant	5c	60c	1.50	7.00
Long Red Cayenne	5c	60c	1.50	7.00

Garden Peas

One pound will plant about fifty feet of row.

CULTURE—Peas of the extra early smooth class are the very first thing to be planted in the garden in spring. The wrinkled sorts follow a little later, as they are not quite so hardy. Tall, late varieties need brush or other support. By selecting sorts that do not grow much over two feet high, the necessity of providing brush may be avoided. Judicious selection of varieties and planting frequently for succession will give a full supply of the choicest green peas almost during the entire season, with the possible exception of the hottest part of the summer. Open furrows three or four inches deep and three apart; scatter the seed peas into them and cover with hoe. Cultivate like corn or beans. The late tall sorts may be planted in double rows placing brush between for support.

The majority of the pea varieties we offer are grown in the Palouse section of eastern Washington and northern Idaho and are handled under the direct supervision of Mr. Kennard, the President of our Company. We are pleased to give you the following suggestions as to choice of varieties as a result of our experience and observation: Do not plant home grown seed that has not been treated to kill the pea weevil because it is a source of infection for your neighbor and will result in serious loss to yourself as well. All of our seed is fumigated before being cleaned and hand-picked.

Varieties for the Market Garden

Early Dwarf — Alaska, Laxtonian, American Wonder, Duke's Delight, Little Marvel.

Mid-Early—Semi-Dwarf, Gradus, Premium Gem, Thomas Laxton.

Late Dwarf—Dwarf Telephone, Stratagem.

Late Tall—Tall Telephone.

Varieties for Home Garden

Early Dwarf — Alaska, Laxtonian, American Wonder, Little Marvel.

Mid-Early—Gradus, Premium Gem.

Late—Dwarf Telephone, Stratagem, Green Admiral Horsford, Perfection, Tall Telephone.

DUKE'S DELIGHT (Little Marvel).

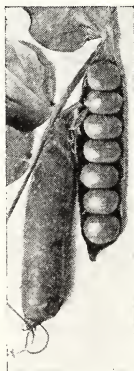
We offer this pea for your approval, as it is one of the finest early varieties we have grown. The plants are from 15 to 18 inches tall, the crop developing with American Wonder, but requiring a longer period to reach full maturity. The pods are straight, large and blunt, varying from 3 to 3½ inches in length, from 7 to 9 seeds per pod. A fine variety for market and home use. We have grown Duke's Delight together with Little Marvel and find the two stocks identical in characteristics.

ALASKA—A very hardy variety for early planting. The seeds are small and of finest quality for canning and the entire crop is ready for harvest at the same time. Plants 2 feet in height.

LAXTONIAN (Blue Bantam)—Our stock produces very large pods curved at the end, averaging 3½ to 4½ inches in length. The plants are 15 to 17 inches tall, producing 4 or 5 pods each. One of the finest market garden varieties because of earliness and size of pod.

AMERICAN WONDER (Dwarf)—The standard dwarf early variety for the home garden. The plants are bushy, producing a large number of pods, which are straight and blunt and well filled. Several pickings can be made in the home garden and the quality is excellent.

AMERICAN WONDER (Tall)—Our strain of Tall American Wonder was developed by selection to secure a plant which would be somewhat taller than the regular American Wonder. Our strain grows to a height of 15 to 20 inches producing pods similar in type to the Dwarf variety. It is ready for use about five days later.



Premium Gem



Duke's Delight Laxtonian American Wonder

PREMIUM GEM—When sown at the same time as American Wonder the crop blooms about five days later but is not ready for use until about ten days after the American Wonder is ready for picking. Plants are from 25 to 30 inches tall producing a medium sized pod with fine quality peas.

GRADUS—A second early variety growing to a height of 30 inches. The pods are large like the Laxtonian and the seeds very sweet and tender. A favorite for market purposes as well as the home garden.

DWARF TELEPHONE—One of the best late varieties because of its dwarf habits of growth and large pods.

TALL TELEPHONE (Alderman)—A tall variety maturing with the Dwarf, with very large pods. It should be trained on stakes for best results.

THOMAS LAXTON—This mid-early variety is similar in habit of growth to the Gradus. The pods are blunt on the end instead of curved. A fine pea for the general market.

STRATAGEM—A late variety desired by market growers, growing to a height of 2 feet, with large curved pods and dark green foliage.

We can supply any of the following additional varieties, description being omitted.

Edible Pod Sugar	Melting Sugar
Hundredfold	Sutton's Excelsior
Everbearing	First and Best
Green Admiral	Perfection
Horsford Market	Claudit

	Postpaid Prices, 3rd Zone			
	Carton	½ lb.	lb.	5 lbs. 10 lbs.
All Varieties...	15c	20c	30c	\$1.25 \$2.25
100 lbs.	\$17.00, add freight.			

Pumpkins

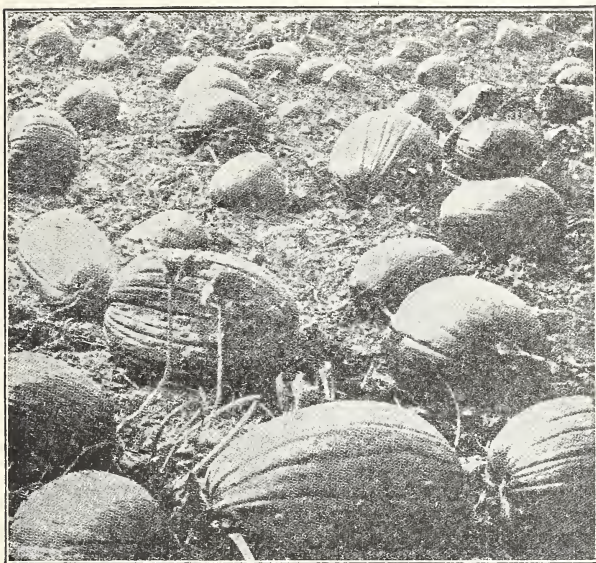
One-half ounce will plant 100 ft. of row; three to 4 lbs. per acre.

CULTURE—Pumpkin should not be planted until danger of frost is over. They may be planted alone in hills or hills scattered through corn fields where the stand of corn is somewhat uneven. A few seeds sown in each hill will produce sufficient vines for a heavy yield. If planted alone, the hill should be spaced 4 to 6 ft. each direction.

A few pumpkins grown for winter use will serve for pies and the smaller ones will make fine jack-o'-lanterns for the kiddies during the fall months. Field pumpkins are ideal feed for livestock.

SUGAR OR PIE—An early maturing variety with medium sized fruits slightly flattened at the ends and of golden color. The flesh is thick and of excellent quality for canning.

CONNECTICUT FIELD—This pumpkin is used principally for stock feed because of its large size. The fruit is longer and larger than the Sugar Pumpkin and the flesh is of somewhat coarser texture.



Field Pumpkins



Sugar or Pie Pumpkin

TENNESSEE SWEET POTATO—This is a bell shaped pumpkin with yellowish green skin. It is early in maturity and of excellent quality for table use.

	Postpaid Prices, 3rd Zone			
Pkt.	1 oz.	2 oz.	1 lb.	5 lbs.
All Pumpkins, 5c	15c	25c	\$1.00	\$4.50

Spinach

One ounce will plant 100 ft. of row; 8 to 10 pounds per acre.

CULTURE—For spring and summer use, sow in drills one foot apart and one inch deep, as early as the ground can be worked, and every two weeks for a succession. For winter and early spring use, sow in September in well manured ground; cover with straw on the approach of severe cold weather. The ground cannot be too rich. The stronger the ground the more delicate and succulent will be the leaves. Light applications of nitrate of soda have often a magic effect on spinach.

BLOOMSDALE SAVOY—This spinach produces large, thick, deeply wrinkled dark green leaves. Used principally for early spring planting.



Bloomsdale Spinach



Improved Thick Leaved Spinach

LONG STANDING—This variety does not go to seed as rapidly as other spinach. While the leaves are smaller than those of the Bloomsdale, it is desirable for late spring planting.

IMPROVED THICK LEAVED—A variety preferred by market gardeners for fall seeding and is equally satisfactory for spring planting. Leaves are bright green in color somewhat round and of choice quality.

KING OF DENMARK—This spinach is a rank grower with deep wrinkled dark green leaves. It appears quite resistant to extreme hot weather conditions.

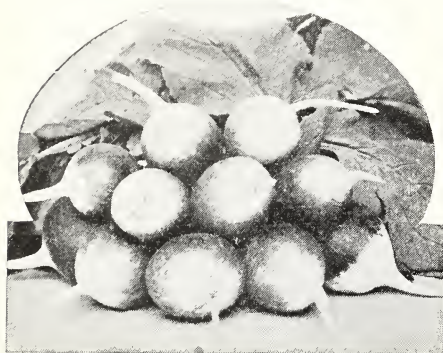
VIROFLAY—A variety suitable for spring or fall planting. The leaves are very large and arrow shaped. Desirable for canning because of its clean up-right leaves

	Postpaid Prices, 3rd Zone			
All Spinach.....Pkt.	5c;	Oz. 15c;	2 oz. 25c;	lb. 75c; 5 lbs. \$3.00

Radishes

One ounce will plant 100 feet of row; ten lbs. per acre.

CULTURE—Sow early and often. In good, warm loam, especially if quite sandy, summer radishes will make a crop in four to six weeks from sowing. The soil should be well prepared and fertilizers may be used freely. Have the rows a foot apart, and sow just enough so that they will not require thinning. The short turnip-rooted sorts are quickest and easiest to grow and also good for forcing.



Early Scarlet White Tip

CRIMSON GIANT

—We consider this one of the best varieties for a commercial crop because of its size and quality. It does not become pithy as soon as other red varieties. It is globular in shape and has a bright red skin.



Crimson Giant

EARLY SCARLET WHITE TIP—One of the favorite varieties for the home gardener because of its crisp quality and early maturity. A turnip shaped radish with scarlet top and white tip.

EARLY SCARLET OLIVE—This early radish has an olive shape, a bright scarlet color and white flesh.

FRENCH BREAKFAST—One of the old standard varieties, rather oblong in shape and suitable for early use.

WHITE ICICLE—A standard variety for market and home use because of its attractive appearance and uniform shape. Retains its quality if planted early in the season.

LONG SCARLET—A scarlet variety similar in shape to the Icicle but growing a more slender root.

SCARLET GLOBE—One of the earliest varieties, having a globe-shaped root, very crisp and tender.

All Radishes.....Pkt. 5c; 1 oz. 15c; 2 ozs. 25c; 1 lb. \$1.00

Postpaid Prices, 3rd Zone



White Icicle

Rhubarb

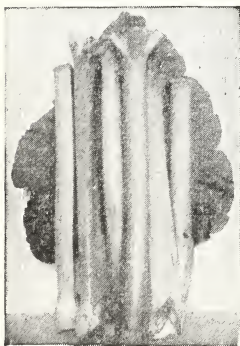
One ounce will produce about 700 plants.

CULTURE—Plant the seed in rows at least one foot apart and thin the plants to about 5 inches in the row. As the stronger plants develop, thin out the weak ones and cultivate throughout the season. In the spring of the second year, transplant to a well manured plot, spacing the plants about 4 feet each way. Give plenty of cultivation, water and fertilizer for a rapidly grown crop.

VICTORIA—A large stalk variety which grows rapidly and is very succulent and free from fiber.

Parcel Post Prices, 3rd Zone

	Pkt.	1 oz.	3 oz.	1 lb.
Rhubarb	.....5c	20c	50c	\$2.00



Victoria Rhubarb

Rutabagas

One half ounce will plant 100 ft. of row; three lbs. per acre.

CULTURE—Rutabagas, like turnips, may be sown in early spring for summer use or in late summer for fall and winter. For early crop, sow in rows and thin to 4 or 5 inches. The fall crop may be sown broadcast on clean ground, after early crops have been harvested. Our stock of Rutabagas is foreign grown and of highest quality.

AMERICAN PURPLE TOP OR YELLOW SWEDE—The most popular and generally grown varieties with yellowish skin distinctly colored with purple at the top. The flesh is very white and of mild flavor.

BANGHOLM—Preferred by many as the neck is slender and tapers toward the root, making it more easily cut off at harvest.

Postpaid Prices, 3rd Zone

All Rutabagas—Pkt. 5c; oz. 15c; 3 oz. 40c; lb. 90c; 5 lbs. \$3.75



American Purple Top Rutabaga

Squash

One-half ounce will plant 100 feet of row; 2 to 3 lbs. per acre.

CULTURE—Plant in well-manured hills, the bush varieties four feet apart each way, the winter sorts ten to twelve feet each way. Use seed freely, 8 to 12 seeds to the hill, to provide for losses by insects. When danger of such loss is past, thin to two or four plants to the hill. To repel the squash vine borer, throw a handful of tobacco dust close around the plants. For yellow-striped beetle and blight, spray early and repeatedly with Bordo Arsenate.

Summer Varieties

WHITE BUSH SCALLOP—More summer squash should be grown as they supply the green vegetables during the season when much of the garden has passed its prime. The fruit of this squash is scallop-shaped, white in color and of high flavor.

YELLOW BUSH SCALLOP—These squashes are of golden yellow color and of similar shape to the white Bush. They have a distinct flavor and are excellent for table use during the early summer.

YELLOW SUMMER CROOKNECK—The fruits of this variety are elongated and somewhat warted and crooked toward the point of attachment. They should be used before they attain maximum growth.



Green Hubbard

Fall and Winter Varieties

TABLE QUEEN—We recommend this variety for the home gardener who desires a small squash for winter use. It is especially desirable for use by small families as the squash can be utilized more efficiently than the large varieties. The fruits are acorn shaped, dark green in color and distinctly ribbed, yellow flesh. They keep just as well as the Hubbard squash and have a better flavor.

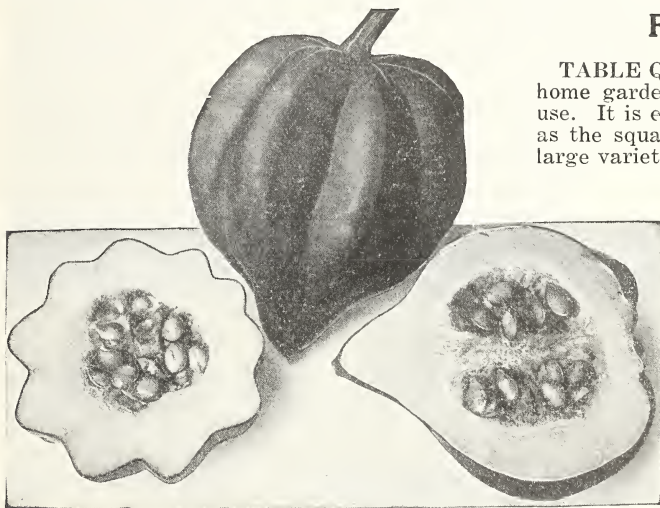


Table Queen Squash

DELICIOUS—A medium sized variety with dark green skin. The fruits are top shaped. A good keeper.

GOLDEN HUBBARD—An old variety similar in shape and quality to the Green Hubbard. The skin is golden yellow in color.

PIKES PEAK or SIBLEY—The fruits of this variety are rounded, tapering toward the ends, and grayish green colored skin. An excellent keeping variety for home use.

BANANA—The skin of this squash is grayish green in color and the fruits long and tapering toward the ends. The rind is not so hard as in the Hubbard. A good keeper.

GREEN HUBBARD—An old favorite winter variety. These squashes are slightly warted, dark green in color with a thick heavy rind.

MARBLEHEAD—Matures at the same time as the Green Hubbard. Skin is light green in color. This variety is grown commercially in many irrigated sections.

MAMMOTH CHILI—Grows to an enormous size, often weighing over 200 pounds. Flesh thick, and fine quality. Its size makes it valuable for stock feeding.

Postpaid Prices, 3rd Zone

	Pkt.	1 oz.	2 oz.	1 lb.	5 lbs.
All Squash.....	5c	20c	35c	\$1.50	\$5.75

Salsify, or Vegetable Oyster

One ounce will plant 50 ft. of row; eight pounds per acre.

CULTURE—Salsify should be sown in early spring, thinning the plants to 4 or 5 inches apart in the row. If dug in the late fall, the roots are excellent for soups and boiling. They have a distinct oyster flavor and are considered a delicacy.

MAMMOTH SANDWICH ISLAND—The best variety we have grown because of its size and length. It is very palatable for cooking and in soups for late fall and winter use.



Salsify

Postpaid Prices, 3rd Zone

Salsify.....Pkt. 5c; 1 oz. 25c; 2 oz. 45c; 1 lb. \$2.50

Tomatoes

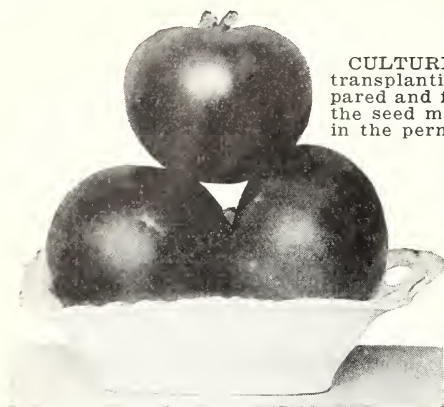
One ounce will produce 2,000 plants.

CULTURE—Tomatoes may be started in hotbed or under glass to be ready for transplanting as soon as frost danger is over. Set out on land thoroughly prepared and free of weeds, spacing the plants 3 to 4 feet apart in the row. Often the seed may be planted in hills and a single plant allowed to grow, planting in the permanent bed where the crop is to be grown.

JOHN BAER—Our stock of John Baer has been used by many market gardeners and has given excellent results. It is an early variety with very solid flesh and a bright red color.

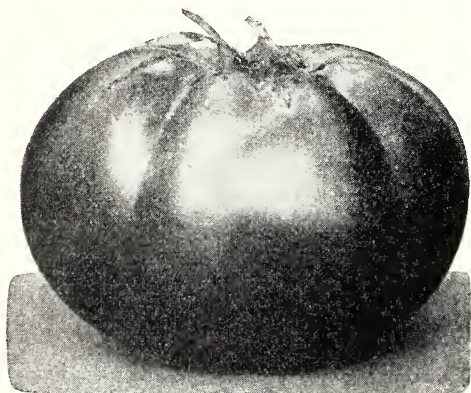
ACME—A well known variety, medium early in maturity. The fruits are round, smooth, and purplish pink in color.

BONNY BEST—For the home garden we recommend this variety because it is early and the fruits are medium in size, very firm, with a small seed cavity.

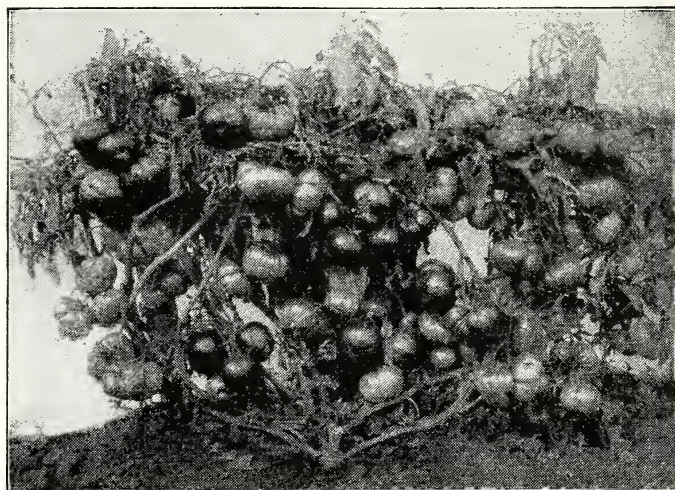


John Baer Tomato

CHALK'S EARLY JEWEL—A variety which produces throughout the season if conditions are favorable. The fruits are large, bright, scarlet in color and stand shipment well.



Matchless Tomato



Bonny Best

YELLOW PEAR—For preserving and pickling this tomato is excellent. The fruits grow in clusters and are small in size, of bright yellow color and pear shape.

SPARK'S EARLIANA—We offer a special stock of this variety which has been selected for freedom from disease, type, and shipping quality. The fruits are large, smooth, of fine texture and quality.

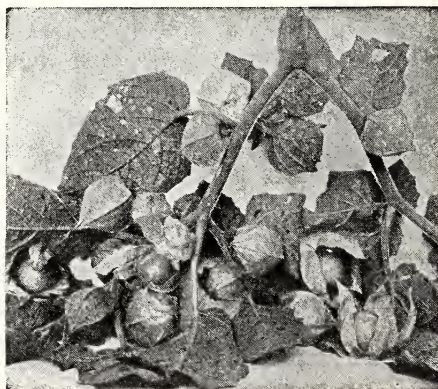
MARGLOBE—The most important Tomato introduced in years—the achievement of Dr. Fred Pritchard, United States Department of Agriculture. It is practically immune to Nail Head Rust and Fusarium Wilt. It is a hybrid from Marvel and Globe, of pure scarlet globe shaped type, having the fine characteristics of the Globe but more vigorous; a heavier producer and somewhat earlier—an exceptionally fine Tomato, especially recommended for shipping.

MATCHLESS—A large, smooth tomato used in many sections for canning, maturing somewhat later than Earliana.

NEW STONE—This tomato is later in maturity than Earliana. The fruits are oval, of deep scarlet color.

GROUND CHERRY—A species of tomato producing the fruit inside of a husk. The fruits are small, round and yellowish in color and are used for preserving.

	Postpaid Prices, 3rd Zone			
	Pkt.	1 oz.	2 oz.	1 lb.
John Baer	5c	35c	60c	\$4.00
Acme	5c	30c	50c	3.50
Bonny Best	5c	35c	60c	3.50
Chalk's Early Jewel.....	5c	30c	50c	3.50
Spark's Earliana.....	5c	35c	60c	4.00
Matchless	5c	25c	40c	3.00
New Stone.....	5c	30c	50c	3.50
Ground Cherry	5c	50c	90c	6.00
Yellow Pear.....	5c	50c	90c	6.00
Marglobe	5c	50c	90c	6.00



Husk Tomato or Ground Cherry

Turnips

One-half ounce will plant 100 feet of row; two lbs. per acre.

CULTURE—For an early crop, turnips may be sown in rows in early spring, thinning to several inches apart in the row as they develop. The main crop is sown under irrigation as soon as grain crop is harvested, sowing the seed with a drill or broadcast, following with a harrow. If the grain stubble has been irrigated thoroughly before discing, the crop will generally grow rapidly.

PURPLE TOP STRAP LEAF—One of the most popular varieties, producing a flat root, white with purple top, and a fine mild flavor. An excellent variety for commercial planting.

PURPLE TOP WHITE GLOBE—Similar in quality to the Strap Leaf, but of globe shape.

GOLDEN BALL OR ORANGE JELLY—One of the best yellow varieties for the home garden and of fine appearance for market use. A choice variety for early spring planting.

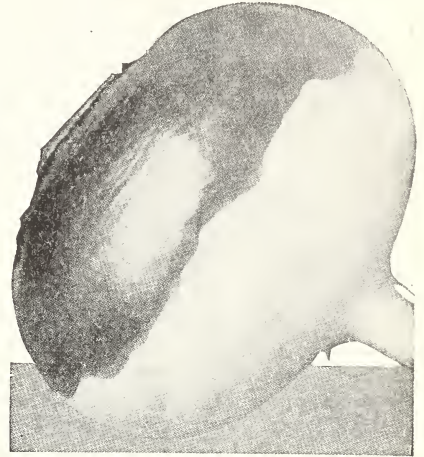
AMBER GLOBE—Medium in size, with a small top. An early variety with tender flesh of mild flavor. The root is globe shaped, and keeps well.

SNOWBALL or WHITE EGG—We suggest this turnip for the early spring garden. It is of small size, with pure white flesh, and mild flavor.

EARLY WHITE MILAN—One of the earliest flat varieties, with white skin.

	Pkt.	1 oz.	2 oz.	1 lb.	5 lbs.
All Turnips	5c	15c	25c	90c	\$4.25

Postpaid Prices, 3rd Zone



Purple Top Strap Leaf

Vegetable Plants

All of the plants offered, are hard, having been transplanted and hardened out of doors before shipment. Plants are carefully packed to reach you in the best possible condition. Place your order early, specifying date for delivery. Cabbage plants and Cauliflower ready April 1st; Celery, Tomato and Pepper plants ready May 1st.

CABBAGE VARIETIES—Early Jersey Wakefield, Copenhagen Market and Danish Ballhead.

CELERY—Golden Self Blanching and White Plume.

CAULIFLOWER—Early Snowball and Danish Giant.

PEPPERS—Chinese Giant.

TOMATOES—Spark's Earliana, John Baer, Bonny Best.

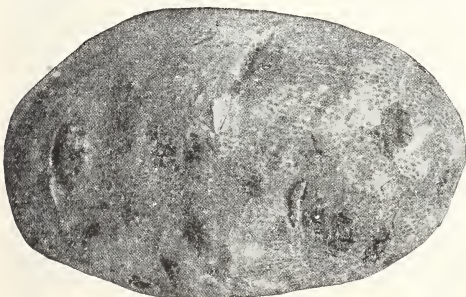
	Postpaid Prices, 3rd Zone		
	Doz.	50	100
Cabbage	25c	\$.85	\$1.50
Cauliflower	30c	1.25	2.00
Celery	25c	.85	1.50
Peppers	35c	1.25	2.25
Tomatoes	35c	1.25	2.25

Seed Potatoes

Many of our seed potatoes are grown on our own seed farm each season. It is possible to produce foundation seed stocks in this way for increase in other localities. All of the plants are under constant supervision by experts with our firm, who rogue for disease and the elimination of weak plants.

It is not possible for us to produce all of the seed potatoes we handle, so that we must depend upon State Inspection for the remainder of these stocks. All seed potatoes listed for inspection by the State, are inspected during the growing season to determine the freedom from disease. If the crop passes two field inspections, it is eligible for certification. The final grade depends upon the way the potatoes are sorted for market.

There is no guarantee from the State or ourselves with reference to the grade of seed potatoes, but potatoes which carry State inspection tags, have met the requirements for certification and are preferable to ordinary crops which have not been rogued and inspected.



Netted Gem Potato

Our Seed Potato Grades

STATE CERTIFIED (Blue Tag)—All seed potatoes which have passed two field inspections and have been sorted at the bin from 2 to 12 oz. in size and are of the type necessary to meet the requirements. Packed in new bags 100 lbs. net weight when packed.

Varieties—Bliss Triumph, Irish Cobbler, Early Red Ohio, Netted Gem, Idaho Rurals (early strain). 10 lbs. postpaid \$1.00. Write for quantity prices.



Our Specials for 1931

As in the past we have continued to add new varieties to our flower seed list as their value warranted. All packets are packed in our plant by experienced help and you can secure them from your local dealer who has a large assortment for your selection. In case you do not find the variety you want, ask him to secure it for you.

Asters

CREGO GIANTS—These beautiful asters are early and produce a profusion of blooms even in localities where the growing season is short. The plants are robust, about two feet in height and produce large, double flowers of the Comet type.

Crego Crimson.	Crego Purple.
Crego Shell pink.	Crego White.
Crego Lavender.	Crego Mixed Colors.

Single Pkt. 10c; 5 separate colors 45c; $\frac{1}{4}$ oz. 50c postpaid

EARLY BEAUTY—The early beauty aster produces a more compact type of flower than the Crego and is very well adapted for cut flowers. The stems are long and the flowers have beautiful curled petals much like Chrysanthemums. These asters bloom at the same time as the Crego.

Early Beauty Crimson	Early Beauty Peach Blossom
Early Beauty Purple	Early Beauty Flesh Pink
Early Beauty Lavender	Early Beauty Mixed Colors

Single Pkt. 10c; 5 separate colors 45c; $\frac{1}{8}$ oz. 40c, postpaid



Crego Asters

HEART OF FRANCE—A choice variety for adding intense color to the fall flower garden. The plants are stout and well branched with long stems. The flowers are compact and are of a rich dark red color. They keep well as a cut flower and are beautiful in mass plantings. Pkt. 10c; $\frac{1}{8}$ oz. 50c, postpaid.

VICK'S BRANCHING—We can supply you with this choice aster in assorted colors. The plants grow to a height of 3 feet and are profusely branched. The flowers are large, double and of fine form. Assorted colors only. Pkt. 10c; $\frac{1}{4}$ oz. 50c, postpaid.

NEEDLE (King Type) — Some growers prefer the needle type to add variety to their aster collection. The petals of this variety are quilled, making them distinct as to shape. Assorted colors only. Pkt. 10c; $\frac{1}{4}$ oz. 50c, postpaid.

SUNSHINE (Anemone Flowered)—Flowers rose, lavender, and pink colors. Many are quilled with twisted petals. A fine aster because of the wide range of types and colors; very fine for cutting. Packet 10c; $\frac{1}{8}$ oz. 50c, postpaid.



Early Beauty

Sweet Peas

Special Spencer Varieties

MARY PICKFORD—If you are a fancier of choice sweet peas, be sure to include this variety in your collection. The flowers are very large, averaging from three to four to the branch. The petals are a beautiful light pink and very wavy.

DEFIANCE—One of the outstanding orange scarlet varieties. It holds its color under intense sunlight and is a pleasing shade. It is vigorous growing late spencer.

HEAVENLY BLUE—A well-named variety of purest blue without a trace of violet. The flowers are large and wavy petaled and bloom profusely.

SNOWBALL—A large flowered pure white and one of the recent introductions. It was selected for keeping qualities as a cut flower, as the color does not yellow to any extent with age.

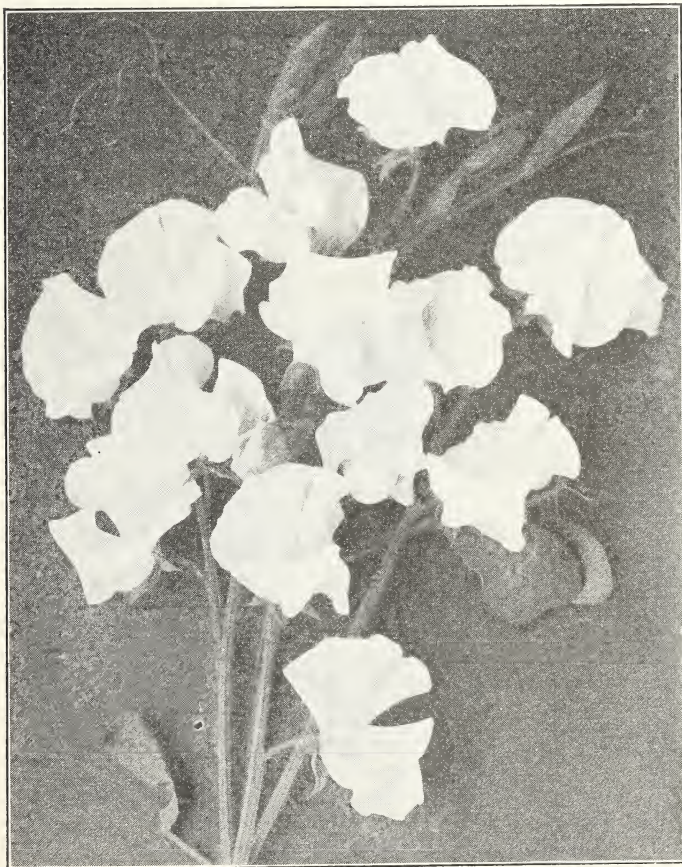
Special Sweet Peas: Single packet 15c; 1 oz. 50c, postpaid.

Standard Late Spencer Varieties

CULTURE—Sweet peas do best if seeded in the late fall or very early spring. The soil should be spaded quite deep and should be well fertilized with well rotted manure. The seed should be sown at a depth of two and a half to three inches, spacing the seeds about one to two inches apart in the row, later thinning to the desired stand. Sweet peas should be sown where they will secure the best sunlight.

Apple Blossom—Large flowers with wings primrose with a flush of rose tint.

Countess Spencer—One of the old standard Spencers with a clear pink color; flowers large and wavy petaled.



King White Sweet Peas



Special Spencer Sweet Peas

Dobbie's Cream — A favorite with creamy colored petals.

Fiery Cross — A brilliant cerise orange of strong color.

Hercules—A giant clear pink of uniform color.

Illuminator—An orange salmon of striking color.

King White—A fine clear white.

King Edward—One of the old standard pure red Spencers of large size.

Margaret Atlee—This deep clear pink is an old standard.

Lavender George Herbert—We suggest this pure lavender as one of the best.

Primrose — Large flower of purest primrose color.

Royal Purple—Rich purple in color with flowers of large size.

Wedgewood—Of a bright blue color.

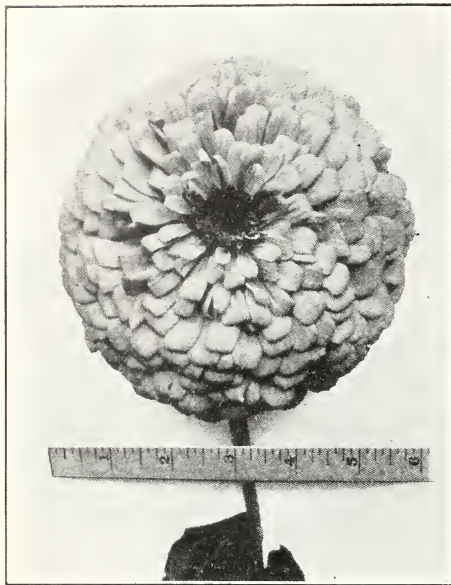
Single packet Named Variety 10c; oz. 25c, Postpaid. Five packets, choice of varieties, 45c, postpaid.

Sweet Pea Mixture—We offer our special strain of mixed sweet peas for the critical trade. All choice late varieties in a wide range of colors. Pkt. 10c; 1 oz. 20c, postpaid.

Grandiflora—A mixture of colors in this type, which are somewhat smaller in size than the Spencers, but often grown to add variety to the planting. Packet 10; 1 oz. 15c, postpaid.

Perennial Sweet Pea (*Lathyrus latifolius*)—This sweet pea grows to a height of 6 to 10 feet, starting from the crown each spring. It is very winter hardy and makes a rank growth. The flowers are of red, pink and white, assorted colors. Pkt. 10c; 1 oz. 35c, postpaid.

Dahlia Flowered Zinnias



Monarch Zinnia

CULTURE—Zinnias should be started under a cold frame or they may be sown out-of-doors after all danger of frost is passed. After the plants are large enough to transplant, they should be placed in the permanent bed, spacing them from 18 inches to 2 feet apart. If the flowers are cut often they will continue to bloom until frost. They will stand intense sunlight but need plenty of water and fertilizer to produce a vigorous growth.

Our Dahlia Flowered Zinnia seed is grown especially for us by a nationally recognized grower and are the best stocks produced and are suited to the florist trade. The flowers of this type are very large, the petals are cup shaped instead of flattened in the Giants, giving them a dahlia-like appearance.

CRIMSON MONARCH—A brilliant red flower of immense size, holding its color well.

DREAM—A deep lavender shade turning to purple.

EXQUISITE—Light rose in color with the center of deep rose.

GOLDEN STATE—A rich orange yellow of brilliant color.

LEMON BEAUTY—One of the new pastel shades described as a golden yellow on brown.

POLAR BEAR—A pure white of large size and perfect dahlia flower.

MIXED COLORS—An assortment of colors containing all of the standard varieties as well as many of the newer novelties.

Packet 15c; 5 packets 60c; ¼ oz. 50c, postpaid.

Lilliput Zinnias

Lilliput Zinnias are one of the new flower novelties which are very popular because of their varied use. They are low growing and can be used in the border as well as in mass planting. They produce excellent table bouquets as well as cut flowers. The flowers are from 1 to 1½ inches in diameter and are of the perfect zinnia shape and variety of colors.

Packet Assorted Colors, 15c; ¼ oz. 50c, postpaid.



Petunias

CULTURE—Petunia seed is very difficult to germinate because of its small size and delicate sprouts. The seed should be sown on the surface of the hot bed or cold frame in soil which has been mixed thoroughly with granulated peat. The peat helps to retain the moisture and prevents the surface baking. After the seed is sown a light dressing of granulated peat should be scattered over the seed. If the bed is kept moist and partly shaded during the day, the seeds will germinate in a short time. The small plants should be transplanted before placing in the permanent location.

GIANTS OF CALIFORNIA — These petunias are very large, ruffled and fringed and are of a beautiful variety of colors. Our seed will produce as fine flowers as can be grown.

Packet 25c; 1-32 oz. \$3.00, postpaid.

ROSY MORN—A rosy pink single petunia with white throat. One of the best varieties for the border and mass planting.

Packet 15c; ⅓ oz. \$1.00, postpaid.

ELKS PRIDE—A deep royal purple variety of rich color, used for borders, window boxes and bedding. One of the richest colored varieties ever developed.

Packet 25c; 1-32 oz. \$3.00, postpaid.

BALCONY RED—A deep red petunia of the balcony type, suited to window box and borders. The flowers are single and of a rich color.

Packet 15c; ⅓ oz. 75c, postpaid.



California Giant Petunias

How to Prepare Flats for Germination of Flower Seeds

Flower seeds should be started in flats so that they can be transplanted to the garden in the proper season. They will produce stronger plants and will bloom earlier than sowing out of doors as early as weather conditions permit.

Wood flats 12x18 inches and 3 to 4 inches in depth are the best size to handle. Use a mixture of sifted top soil to which is added about 25% of sand 25% of granulated peat moss. Mix thoroughly and work with enough water to make the bed firm. A light covering of one-half inch of granulated peat moss should be added to the surface to serve as a bed for the seeds and to prevent baking and cracking of the surface.

The boxes should be placed under glass or Sun-cloth, allowing plenty of air under the cover. Keep the surface moistened enough to germinate the seed. If the seeds are planted in rows, it is easier to

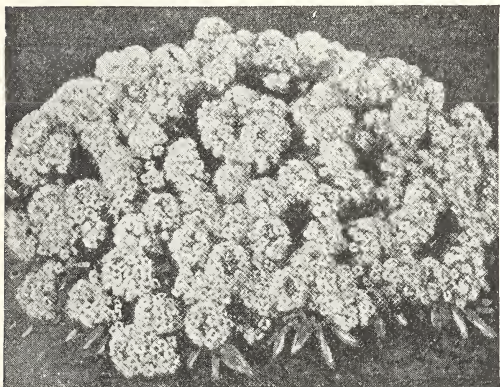
weed and to determine the percentage of germination.

All small seeds, such as Petunias, Kochia, Sweet William, Salpiglossis, Lobelia, etc., should be sown on the surface, pressed down lightly and a thin layer of granulated peat moss sprinkled over the top. Do not water any more than necessary to hold the moisture toward the surface.

Larger seeds may be planted in shallow rows made in the soil, then covered with a thin layer of peat moss. If there is any indication of damping-off fungus appearing, Semesan should be added to the water used in sprinkling the beds.

After the seeds have germinated and the plants appear, thin them to the desired spacing and keep the flats weeded. Some seeds require from 15 to 20 days to germinate, so plenty of time should be allowed to take care of slow growing seeds.

Standard Flower Favorites



Alyssum

AGERATUM (Blue Perfection)—A choice low growing annual for borders. The flowers are blue in color and of feathery ball-like appearance. It should be used for bedding where a strong blue color is needed. The flowers are fine for cutting and bouquets. Packet 10c; ¼ oz. 25c, postpaid.

ALYSSUM (Sweet)—A well known variety 10 inches in height with fragrant white flowers. An excellent border plant. Packet 10c; ¼ oz. 25c, postpaid.

(Carpet of Snow)—Low growing, pure white, trailing habit. Packet 10c; ¼ oz. 25c, postpaid.

(Little Gem)—A special dwarf variety of Alyssum with masses of pure white flowers. Packet 10c; ¼ oz. 25c, postpaid.

(Saxatile Compactum)—This perennial strain of Alyssum is valuable for rock gardens. It produces yellow flowers and is desired by many for its color. Packet 10c; ¼ oz. 30c, postpaid.

AMARANTHUS TRICOLOR (Joseph's Coat)—A very showy annual growing to a height of 3 feet. The leaves are variegated in color, red, yellow and green. It is used

where a variety of color is needed. Packet 10c; ¼ oz. 25c, postpaid.

ANEMONE (Windflower)—A half hardy perennial 18 inches in height with beautiful delicate flowers. Should be included in the rockery. Packet 10c; ¼ oz. 50c, postpaid.

ARCTOTIS GRANDIS (African Daisy)—These annual daisies grow from 6 to 10 inches tall, producing pure white flowers with lilac under color. Fine for cutting. Packet 10c; ¼ oz. 25c, postpaid.

ARABIS (Rock Cress)—One of the best white flowering perennials for rock garden, blooming very early in the season. It is low growing and is fine for borders or massing. Packet 10c; ¼ oz. 25c, postpaid.

ASTERS—See special flower list on page 20.

BACHELOR'S BUTTON—Old favorite annuals growing to a height of 3 feet. The flowers are of various shades of blue, purple, pinks, and white and the foliage is small. Easily grown from seed planted out of doors. Packet 10c; ¼ oz. 25c, postpaid.

BALSAM—An annual 1 to 2 feet in height suited to borders or group planting. The rose-like flowers grow in the axil of the leaves and are beautiful in shade and color. Packet 10c; ¼ oz. 25c, postpaid.

BLUE LACE FLOWER—This annual grows 2 feet in height and has lace-like mass of blue colored flowers. The blooms are produced throughout the season and can be used for cutting and general garden display. Packet 10c; ¼ oz. 50c, postpaid.

CALENDULA (Lemon Queen)—A rich lemon yellow variety with large compact blooms. The plants are used for massing and borders. If cut often will bear throughout the season. Packet 10c; ½ oz. 25c, postpaid.

(Orange King)—Similar in quality to the Lemon Queen but the flowers are of a deep orange color. Packet 10c; ½ oz. 25c, postpaid.

(Mixed Colors)—An assortment of colors varying from nearly white dark orange colors. Packet 10c; ½ oz. 25c, postpaid.



Balsam

Standard Favorite Flowers—continued



Calliopsis

CANTERBURY BELLS—Hardy biennials 2 to 3 feet in height, producing large bell-like flowers in assorted colors. Desirable for rockeries and borders. Packet 10c; $\frac{1}{4}$ oz. 35c, postpaid.

CLARKIA—Hardy shrub-like annuals with colored stems and rosy flowers. A very attractive plant for massing and for planting among perennial shrubbery. Packet 10c; $\frac{1}{4}$ oz. 30c, postpaid.

COCKSCOMB—A late blooming annual with large comb-like masses of brilliant red flowers, produced at the top of the plant. A fine flower to add color to the late garden. Packet 10c; $\frac{1}{4}$ oz. 30c, postpaid.

COLUMBINE—Perennial plants with delicate wavy foliage and graceful spurred flowers of attractive colors. Widely used in rockeries and among shrubbery, growing well in partial shade. Packet 10c; $\frac{1}{4}$ oz. 50c, postpaid.

COREOPSIS—A beautiful perennial daisy with yellow petals of glossy color and widely used in rock gardens. The flowers are suited to cutting. Packet 10c; $\frac{1}{2}$ oz. 25c, postpaid.

COSMOS—Graceful tall growing annuals with fern-like foliage tipped with large flowers of various colors, blooming from mid-summer until frost.

Early Single Red Cosmos Early Single White Cosmos

Early Single Pink Cosmos Early Single Mixed Cosmos

Packet 10c; $\frac{1}{4}$ oz. 30c, postpaid.

CYPRESS VINE—A rapid growing vine having star shaped flowers. Grows best in warm sunny locations. Packet 10c; $\frac{1}{4}$ oz. 25c, postpaid.



Cosmos

12 Packets of
Flowers
Listed at
10c,
\$1.00, Postpaid

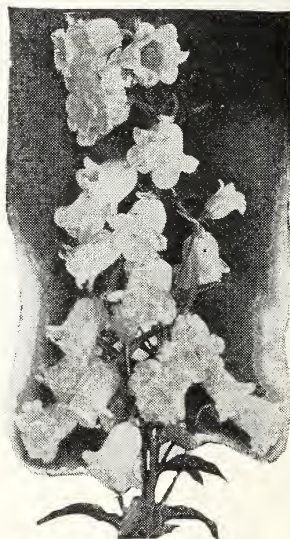
CALIFORNIA POPPY (*Eschscholtzia*)—These annuals grow wild throughout California and many new colors have been produced by selection. The plants are low-growing, with beautiful poppy-like flowers in a wide range of colors. They can be used in the rock garden as well as the general flower planting. Packet 10c; $\frac{1}{2}$ oz. 30c, postpaid.

CALLIOPSIS—A hardy annual with long graceful flower stalks. The flowers vary in color from yellows to dark maroon. Fine for cutting and mass planting. Packet 10c; $\frac{1}{2}$ oz. 25c, postpaid.

CANDYTUFT—These plants should be spaced about 1 foot apart in the row and will produce a fine growth of spike-like flowers of various colors. It is low enough in growth to be used for borders, and is of value as a cut flower. Packet 10c; $\frac{1}{2}$ oz. 25c, postpaid.

CANARY BIRD VINE—An annual climbing vine of graceful form. Seed should be sown indoors and the plants set out after frost. The flowers are of peculiar shape and of yellowish color. Plants grow to a height of 10 feet. Packet 10c; $\frac{1}{2}$ oz. 25c, postpaid.

CARDINAL CLIMBER—A vine-like annual with fern shaped foliage growing to a height of 20 feet. It produces fiery cardinal red flowers. A desirable plant for trellis. Packet 10c; $\frac{1}{4}$ oz. 50c, postpaid.



Canterbury Bells

CHINESE WOOLFLOWER—The branches of this annual terminate in a large ball of velvety dark red color. It grows 2 to 3 feet in height and blooms throughout the season. Packet 10c; $\frac{1}{4}$ oz. 35c, postpaid.

DUSTY MILLER (*Centaurea Candidissima*)—An annual with silvery gray foliage used in window boxes to add variety to the planting. Pkt. 10c; $\frac{1}{4}$ oz. 50c, postpaid.

DELPHINIUM—Our strain of Delphinium contains a wide range of colors and will produce the beautiful flowers so much in demand by the critical trade. Packet 10c; $\frac{1}{8}$ oz. 50c, postpaid.

ENGLISH DAISY (*Bellis*)—These daisies are perennials, growing to a height of only a few inches. The flowers develop in three colors, red, pink, and white. Seeds are often planted broadcast throughout the lawn and the plants are very attractive for borders in the permanent flower garden. Packet 10c; 1-16 oz. 50c, postpaid.

FORGET-ME-NOT—Blue flowering perennials best suited to moist shady locations. Packet 10c; $\frac{1}{8}$ oz. 50c, postpaid.

FOUR O'CLOCK (*Marvel of Peru*)—A hardy annual producing funnel shaped flowers in assorted colors. The flowers generally bloom in late afternoon and during the night. Height 2 feet. Packet 10c; $\frac{1}{2}$ oz. 20c, postpaid.

FOXGLOVE (*Digitalis*)—Biennial or perennials producing flowers after the first season, used extensively in rock gardens. These plants have long terminal spikes of graceful flowers, white, lavender or rose color. Height 3 feet. Packet 10c; $\frac{1}{4}$ oz. 30c, postpaid.

Standard Favorite Flowers—continued

GAILLARDIA (Blanket Flower)—Single Mixed. Large showy annuals with brown, orange and yellow flowers, blooming in profusion until late fall. Packet 10c; ¼ oz. 25c, postpaid.

Mixed Perennial Gaillardia, a desirable strain for the perennial garden. Packet 10c; ¼ oz. 25c, postpaid.

GODETIA—An excellent plant for borders and massing, growing to a height of two feet. The stems are colored like Clarkia. The flowers are large and of delicate colors. Pkt. 10c; ¼ oz. 35c.

GEUM—Hardy perennials 1 foot tall, free blooming. Fine for cutting and bouquets. Used in border plantings.

Lady Stratheden—Flowers double of golden yellow color.

Mrs. Bradshaw—Flowers double, of orange scarlet color.

Packet 10c; ¼ oz. 75c, postpaid.

GOMPHRENA (Globe Amaranth)—A desirable bedding plant growing from 1 to 2 feet in height. The flowers are clover-like in shape and are of various colors. A fine annual for cutting. Packet 10c; ¼ oz. 25c, postpaid.

GOURDS—These viney plants are interesting to grow for the children, as the dry fruits can be utilized in many ways. Our stocks produce the smaller type of gourds. Packet 10c; 1 oz. 40c, postpaid.

GYPSOPHILA (Baby's Breath)—A delicate branching plant with small star-shaped flowers. Used in decorating cut flowers.

Annual White—Packet 10c; ¼ oz. 20c, postpaid.

Perennial White—Packet 10c; ¼ oz. 25c, postpaid.

HELIOTROPE—A fragrant bedding plant, which should be sown in the cold frame and transplanted early. A free blooming annual, very desirable for its bluish lavender color and fragrance. Packet 10c; ¼ oz. 40c, postpaid.

HIBISCUS (Marshallmow)—Perennials with large flowers, yellow color, growing from 4 to 6 feet tall. Blooms are produced throughout the season, the plants dying back during the winter season. A favorite for background work. Packet 10c; ¼ oz. 30c, postpaid.

HOLLYHOCK—Hardy old-fashioned perennials for background planting. Flowers of various colors, many doubles. Packet 10c; ¼ oz. 35c, postpaid.

ICE PLANT—This trailing annual is used in porch boxes, or rock gardens. The stems and leaves are very succulent and appear to be covered with ice crystals, the flowers are light red in color and appear as tufts of slender threads. Packet 10c; ¼ oz. 30c, postpaid.

KOCHIA (Mexican Fire Bush)—This summer annual is used in borders and if spaced 2 feet apart, give the appearance of a green hedge, or group of evergreens. The plants turn red in the fall. Packet 10c; ½ oz. 25c, postpaid.

LANTANA—A free blooming annual with various colors of flowers which change in color as the season advances. A fragrant plant for bouquets. Packet 10c; ¼ oz. 25c, postpaid.

LARKSPUR—Annual Larkspur is beautiful for its variegated colors and double flowers. Fine for bedding and mass plantings. Packet 10c; ¼ oz. 30c, postpaid.

LINUM (Red Flax)—An annual variety of flax with bright red flowers. The foliage is delicate and adds to the variety in any flower garden. Pkt. 10c; ½ oz. 25c, postpaid.

LOBELIA—Dwarf Lobelia is used extensively in porch boxes, and borders, because of its beautiful blue color and delicate foliage. Packet 10c; ½ oz. 50c, postpaid.

LUPINS—Our strain of Lupins is an annual easily grown from seed. The flowers are borne on long spikes and are pea-shaped. Packet 10c; ¼ oz. 25c, postpaid.

MARIGOLD (Tall African)—The Marigold is a well known annual blooming throughout the season, with orange, and yellow flowers. Used in mass planting and for cut flowers.

Orange Ball—Orange in color, double.

Lemon Ball—Lemon yellow in color, double.

Mixed Colors.

Packet 10c; ½ oz. 40c, postpaid.

MIGNONETTE—A sweet scented annual for borders, growing 12 inches tall. Excellent for bouquets. Assorted colors. Packet, 10c; ½ oz. 35c, postpaid.

MORNING GLORY—Old fashioned annual climbers for covering trellis or porch. The flowers are bell shaped and of variegated colors. Packet 10c; ½ oz. 25c, postpaid.

NASTURTIUM—These hot season annuals should be included in every garden because of their productivity and adaptability. Will grow on poor soils and intense sunlight. The taller varieties are used in porch boxes, allowing them to trail over the edges. Tall Mixed. Dwarf Mixed. Packet 10c; 1 oz. 20c, ¼ lb. 75c, postpaid.



Gaillardia



Hollyhocks



Marigolds



Nasturtiums

Standard Favorite Flowers—continued

ORIENTAL POPPY—Rich scarlet red flowers of value in the perennial garden. The plants are hardy and bloom early in the season before many of the annuals are ready. We believe that this is the best poppy for garden planting. Pkt. 10c; $\frac{1}{4}$ oz. 40c, postpaid.

PANSY—For early spring bloom, the pansy is one of the best. It will live from season to season if given some protection during the winter. The flowers are of beautiful colors and bloom profusely if kept picked.

Oregon Giants—Packet 10c; $\frac{1}{4}$ oz. \$1.00, postpaid.

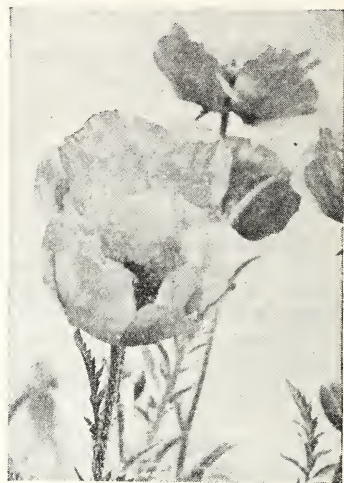
Giant Trimardeau—Packet 10c; $\frac{1}{4}$ oz. 75c, postpaid.

PETUNIA—The common petunia grows well in extreme sunlight and is used in massing, giving a pleasing color effect. Easily grown from seed planted in the cold frame and transplanted to the garden after frost. Packet 10c; $\frac{1}{4}$ oz. 40c, postpaid.

For Special Petunias, See Page 22.

PHLOX—The annual Drummondii is low growing and being a free bloomer is used for borders and bedding. Easily grown and hardy. Packet 10c; $\frac{1}{4}$ oz. 40c, postpaid.

PHLOX (Perennial)—We offer only the assorted colors of perennial Phlox. They should be started in the hot-bed and transplanted as early as the season permits. A background of mixed Phlox is very pleasing in its effect as they are persistent in flower. Height 2 to 3 feet. Packet 10c; $\frac{1}{4}$ oz. 75c, postpaid.



Oriental Poppies

PHYSALIS (Chinese Lantern)—A hardy perennial suitable for growing in waste corners of the flower garden. The flowers are small and inconspicuous but the seed pod develops a large orange colored ball similar to a lantern. These pods are produced at intervals on the stems and make fine winter decorations for the home. Packet 10c; $\frac{1}{4}$ oz. 50c.

PINKS—Old fashioned flowers producing a variety of colors. Useful for beds and borders as they are low growing. Packet 10c; $\frac{1}{4}$ oz. 35c, postpaid.

POPPY (Double Carnation Flowered)—These ball-like flowers are very attractive in the annual garden and grow readily from seed planted out of doors. Plants 3 feet tall. Packet 10c; $\frac{1}{2}$ oz. 25c, postpaid.

POPPY (Flanders)—Brilliant scarlet, memorial of the fields of Flanders. Packet 10c; $\frac{1}{2}$ oz. 25c.

POPPY (Shirley)—Single flowered poppies with soft hairy foliage. Because of their delicate shades of color, they are desired for the annual garden. Packet 10c; $\frac{1}{2}$ oz. 25c, postpaid.

PORTULACA (Moss Rose)—A low-growing trailing annual used in rock gardens borders, etc. The flowers are rose-like and of beautiful colors. Packet 10c; $\frac{1}{4}$ oz. 35c, postpaid.

PYRETHRUM (Golden Feather)—A dwarf variety used for borders. It is a perennial plant with golden yellow foliage. Packet 10c; $\frac{1}{4}$ oz. 40c, postpaid.

RICINUS (Castor Bean)—Tall palm-like annual with bright green foliage. Mature seed is only produced where the season is favorable. Packet 10c; 1 oz. 25c, postpaid.



Pinks

SALVIA (Scarlet Sage)—Salvia should not be transplanted to the permanent bed until frost is passed. The flower spikes are of brilliant color and the foliage dark green making a desirable contrast of color in mass plantings. Packet 10c; $\frac{1}{8}$ oz. 30c, postpaid.

Salvia Splendens, Bonfire, Fireball—Pkt. 10c; 1-8 oz. 30c, postpaid.

SALPIGLOSSIS—You should grow this beautiful annual. The plants grow about 3 feet tall, the flowers are bell-shaped, with delicate markings and velvety appearance. Grown in a wide range of colors and used for massing and cut flowers. Pkt. 10c; $\frac{1}{4}$ oz. 35c, postpaid.

SCABIOSA (Mourning Bride)—Flower stalks 2 feet tall, with inconspicuous foliage and large flat flowers of beautiful colors. Used in mass planting and for cut flowers as they keep well. Mixed Annuals—Packet 10c; $\frac{1}{4}$ oz. 20c, postpaid.

SCABIOSA CAUCASIA—A perennial Scabiosa with lilac and white colored flowers. Should be included in your rock garden planting. Packet 10c; $\frac{1}{4}$ oz. \$1.00, postpaid.

SCARLET RUNNER BEAN—This bean derives its name from the brilliant flower produced along the runners. It is a pole type of bean and should be trained on a trellis or fence. Should be planted after danger of frost. Packet 10c; $\frac{1}{4}$ lb. 20c, postpaid.

SHASTA DAISY—One of the purest white daisies grown. A hardy perennial, blooming throughout the season. Packet 10c; $\frac{1}{4}$ oz. 50c, postpaid.

SWEET SULTAN—A beautiful annual for baskets and cutting, with thistle-like heads. The petals are feathery and soft in texture, with lavender, pink and light shades of color. Packet 10c; $\frac{1}{4}$ oz. 25c, postpaid.

12 Packets of Flowers
Listed at 10c,
\$1.00 Postpaid.



Shasta Daisies

Standard Favorite Flowers—continued



Snapdragon

STATICE (Sea Lavender)—A hardy perennial 2 feet in height with fine branching stems and bluish everlasting flowers. Used for cutting and bouquets. Packet 10c; $\frac{1}{8}$ oz. 25c, postpaid.

STOCKS—One of the best early flowering annuals for bedding and pot culture. The flower stalks are compact with double rose-like blossoms of beautiful colors. Packet 10c; $\frac{1}{8}$ oz. 50c, postpaid.

STRAWFLOWER (Helichrysum)—For winter bouquets, the strawflower is unsurpassed. If the flowers are cut when in full bloom and allowed to dry, they will hold their color and keep during the winter season. The colors are red, orange, pink, etc., and produce a pleasing blend. An annual easy to grow. Packet 10c; $\frac{1}{4}$ oz. 30c, postpaid.

SUNFLOWER—Mammoth Russian is the type generally grown for poultry feed and silage. The stalks often reach a height of 10 feet, with large disk heads. Packet 10c; $\frac{1}{2}$ lb. 15c, postpaid.

DWARF DOUBLE—A smaller variety with large double orange yellow flowers, very uniform in type and beautiful in appearance. Packet 10c; 1 oz. 25c, postpaid.

SWEET WILLIAM—Our stock of this hardy perennial has a wide range of color combinations. The plants bloom early in the season and make excellent borders. Height 2 feet. Packet 10c; $\frac{1}{4}$ oz. 25c, postpaid.

TRITOMA (Red Hot Poker)—Hardy perennials producing a tall flower stalk of brilliant cerise color. Blooms during the early part of the season. Packet 10c; $\frac{1}{4}$ oz. 75c, postpaid.

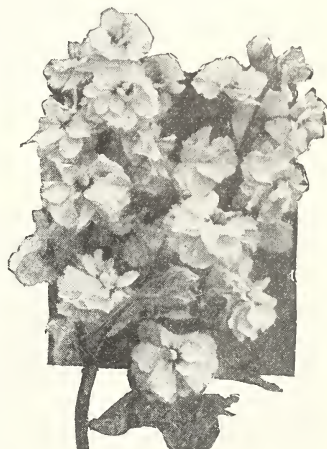
VERBENA—The Verbena is an ever popular annual for window boxes, borders, and massing. It is low growing and produces graceful flowers in pink, red, blue and white colors. Packet 10c; $\frac{1}{4}$ oz. 50c, postpaid.

VIOLA—A perennial similar in culture to the ordinary violet. Flowers, lavender to purple in color. Quite fragrant. Packet 10c; $\frac{1}{4}$ oz. 50c.

WALL FLOWER—Half-hardy perennials growing 1 foot in height. Flowers are a rich red, and yellow in color. Packet 10c; $\frac{1}{4}$ oz. 25c, postpaid.

WILD CUCUMBER—One of the most rapid growing vines for covering trellis or for shading windows. The seeds are very hard and should be scarified before planting. Fall sown seed will generally germinate by early spring. Packet 10c; 1 oz. 25c, postpaid.

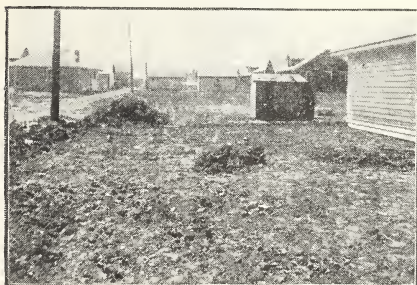
WILD FLOWER GARDEN—A well balanced mixture of flower seeds suitable for planting in corners and vacant areas around the garden. Packet 10c; 1 oz. 25c, postpaid.



Stocks



Sweet William



**Before
and
After
Planting
Flowers
and
Shrubs**



Hardy Perennial Plants

We have had many inquiries for biennial and perennial plants for use in rockeries, permanent gardens, and for ornamental plantings. We can now offer you the best grade of these plants obtainable in the Northwest. Owing to the difficulty in determining transportation cost, all prices are made f. o. b. Lewiston and shipments are made by parcel post or express.

Parcel Post Notice

If you desire plants to be sent by parcel post, include postage as follows: Single plants 5c; 3 plants 10c; 6 plants 15c; 12 plants 25c. Where postage is not included, plants will be sent express collect.

ALTHEA ROSEA (Hollyhock)—Blooming from July until frost. Mixed, 25c each; \$2.50 per dozen.

AQUILEGIA (Columbine)—Flowers during May and June. Long Spurred Assorted Colors. Each, 25c; \$2.50 per dozen.

CAMPANULA (Canterbury Bells)—Early flowering, cup and saucer type. Large semi-double, assorted colors. Each, 25c; \$2.50 per dozen.

COREOPSIS—Beautiful yellow daisy-like flowers, blooms during June and July. Stems delicate and graceful. Each, 25c; \$2.50 per dozen.

DIANTHUS (Pinks)—Old-fashioned carnation pinks. Carnation pink. Scarlet. Each, 25c; \$2.50 per dozen.



Dicentra (Bleeding Heart)

DICENTRA (Bleeding Heart)—Much used flower for early bloom. 3 to 5 eye roots. Each, 50c; \$5.00 per dozen.

DIGITALIS (Foxglove)—A favorite biennial for border and rock gardens. White. Purple, Rose. Each, 25c; \$2.50 per dozen.

DELPHINIUM—Our plants are grown from the best English Hybrids producing a wide range of colors and shades. Each, 35c; \$3.50 per dozen.

GAILLARDIA (Blanket Flower)—Hardy daisy-like flowers yellow and crimson colors, dark centers. Each, 25c; \$2.50 per dozen.

GYPSOPHILA (Baby's Breath)—A hardy perennial suitable for cutting and for decorations. Each, 25c; \$2.50 per dozen.

HARDY ASTER (Michaelmas Daisy)—Beautiful small asters for late fall bloom in the rock garden and partial shade. Assorted colors. Each, 25c; \$2.50 per dozen.

MYOSOTIS (Forget-Me-Not)—Dwarf plants with dark blue flowers, blooming throughout the summer. Each, 25c; \$2.50 per dozen.

ORIENTAL POPPY (Papaver)—Hardy hybrid poppies blooming during early summer. Assorted colors. Each, 25c; \$2.50 per dozen.

PENTSTEMON (Beard's Tongue)—Flowers spike-like of bright scarlet color, blooming throughout the season. Each, 25c; \$2.50 per dozen.



Phlox

PHLOX—One of the most desirable perennials for mid-summer and fall bloom. Height 3 feet. Assorted colors. Each, 25c; \$2.50 per dozen.

PHYSALIS (Chinese Lantern Plant)—Produces bright orange scarlet lantern-like fruits. Each, 25c; \$2.50 per dozen.

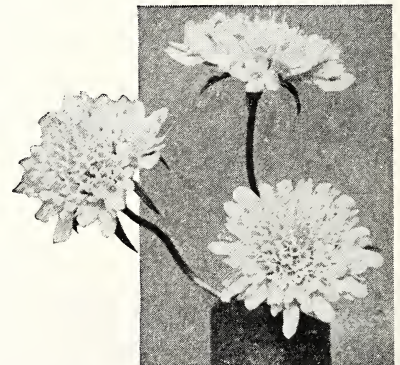
PYRETHRUM (Painted Daisy)—Hardy daisies with long stems, blooming profusely. Flowers keep well when cut. Rose and red colors. Each, 25c; \$2.50 per dozen.

SCABIOSA—Flowers of delicate lavender color borne on graceful stems. Fine for cutting. Persistent in bloom. Each, 35c; \$3.50 per dozen.

SHASTA DAISY—Large white—June to August. Each, 25c; \$2.50 per dozen.

SWEET WILLIAM—Early flowering pinks of a wide variety of colors. Each, 35c; \$3.50 per dozen.

TRITOMA (Red Hot Poker)—A handsome border plant with large flowers of orange scarlet color. Need some protection during winter. Each, 25c; \$2.50 per dozen.



Scabiosa

Iris

Parcel Post Notice—If you desire plants to be sent by parcel post, include postage as follows: Single plants 5c; 3 plants 10c; 6 plants 15c; 12 plants 25c. Where postage is not included, plants will be sent express collect.

We can supply you German Iris in assorted colors. All of our stock is non-irrigated with large rhizomes. Each 20c; 3 for 50c.

Lilies

Parcel Post Notice

If you desire plants to be sent by parcel post, include postage as follows: Single plants 5c; 3 plants 10c; 6 plants 15c; 12 plants 25c. Where postage is not included, plants will be sent express collect.

AURATUM—Petal white with crimson spots striped through with yellow—July to September. Each 50c; \$5.00 per dozen.

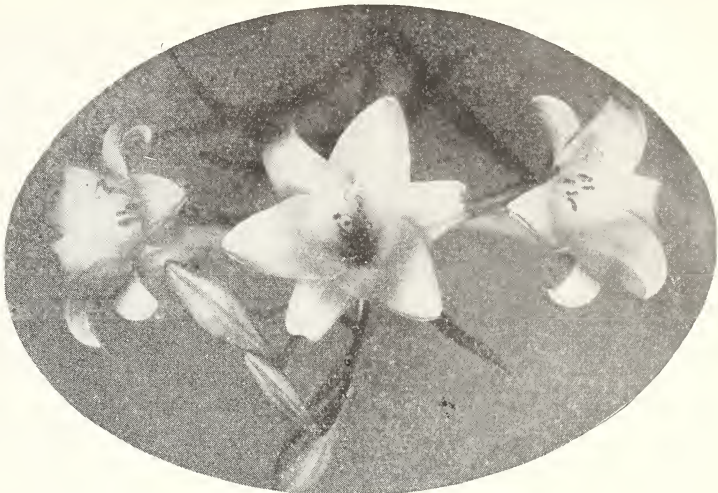
ELEGANS—Dark orange crimson—June and July. Each 35c; 3 for \$1.00.

TIGER—Light salmon with red spots—July and August. Each 35c; 3 for \$1.00.

TURK'S CAP—Apricot shade—July and August. Each 35c; 3 for \$1.00.

LEMON—Bright yellow—June. Each 35c; 3 for \$1.00.

LILY OF THE VALLEY—Clumps. Each 50c; \$5.00 per dozen.



Lilies

Peonies

Fall planting is generally best with peonies, yet spring planting is successful if done very early. Orders should be placed in February at the latest and shipment will be made as soon as the season permits. All of our plants are hardy local grown stocks.

Parcel Post Notice—If you desire plants to be sent by parcel post, include postage as follows: Single plants, 5c; 3 plants, 10c; 6 plants, 15c; 12 plants, 25c. Where postage is not included, plants will be sent express collect.

ALEXANDER DUMAS—A brilliant pink, early in bloom and very vigorous. Each, 75c.

BARONESS SCHROEDER—Considered one of the finest peonies grown. The buds are a delicate pink when they first open, changing to a milky white as they mature. Rather late in bloom. Each, \$1.00.

LA PERLE—Mid-season, flowers a soft pink. Each 75c.

MADAM DE VERNEVILLE—Very large bomb type with center petal rose white touched with carmine. Mid-season. Each 75c.

MARIE LEMOINE—Sulphur white, very fragrant, late peony. Each \$1.00.

OFFICINALIS RUBRA—The best early peony for its profuse bloom and deep red color. Each 75c.

QUEEN VICTORIA—A pure white, very fragrant and hardy. Mid-season. Each 75c.

VENUS—Taller growing variety with pale hydrangea pink flowers. Mid-season. Each \$1.00.



Peonies

COURONNE D'OR—A mid-season white flowered variety with yellow stamens. Each \$1.00.

DELACHEI—Mid-late free blooming red. Each, 75c.

EDULIS SUPERBA—In this locality blooms are produced by Decoration Day. Flowers are a deep pink color. Each \$1.00.

FELIX CROUSSE—Mid-season deep rose red. Each \$1.00.

FESTIVA MAXIMA—The best white peony grown. Flowers are very fragrant and a profuse bloomer. Each 75c.

KARL ROSENFELD—A brilliant striking red, blooming in mid-season. Each \$1.50.

Peat Moss

Peat Moss is being used extensively for poultry litter, for improvement of heavy soils, hotbeds, and general garden use. This moss is a mixture of plant growth, which has partially decayed and is taken from the peat beds, dried, and baled ready for use.

Peat Moss will absorb from 10 to 15 times its weight in moisture. It prevents the soil cracking, and also furnishes some plant food to growing plants.

CHICK PEAT—This grade of peat is used primarily for litter in poultry houses. If spread over the floor to a depth of 2 to 3 inches, it will absorb the droppings and moisture which collects in the poultry house, keeping the floor dry. This litter is excellent for use in the garden, flower beds, and for mulching shrubs after removal. This grade of moss can also be used as it comes from the bale, for mixture with the garden soil.

Bale about 140 lbs. \$4.50 F. O. B. Lewiston. Bale only.

GRANULATED PEAT—Granulated peat is used in mixture with the soil for seed boxes, and to lighten garden soil where the coarser grade of peat cannot be used. 25 lb. bag \$1.60, F. O. B. Lewiston.

Gladioli

All Prices Postpaid
SPECIAL GLADS

GOLDEN DREAM—We believe that this new yellow surpasses all self yellows originated to date. The spike has length and strength and as many as 6 flowers are commonly open at a time. It grows quite tall and is certainly in a class by itself for color and beauty. Each, 50c; dozen, \$5.00.

LA VERNE (Houdyshel)—A primulinus grandiflora type. Flowers a fine yellow with a pink flush quite pronounced on the edges and tips of the petals, with a deeper blotch in the throat. (95 days.) Each, 25c; dozen, \$2.50.

NANCY HANKS (Salbach)—Rich apricot to orange pink with grenadine tongue. These primulinus-hybrid colors are very unusual in the large flowering Glads. A rapid grower, fine for cutting. (96 days). Each, 25c; dozen, \$2.50.

PRIDE OF WENAKAH (Criswell)—A rich lavender rose with deeper color in the throat. Spikes very strong and many blooms open at once. Each, 25c; dozen, \$2.50.

ROSE MIST (Fischer)—The wonder glad. Color is crushed strawberry. Size medium, with wonderful placement. (91 days). Each, 25c; dozen, \$2.50.

ETHELYN (Fischer)—A fine orange yellow primulinus. Grows quite tall with large spikes. (95 days). Each, 25c; dozen, \$2.50.

W. H. PHIPPS—A La France pink overlaid with light rose salmon, lower petals faintly striped and speckled with ruby. Flowers of large size. (116 days). Each, 25c; dozen, \$2.50.

BREAK O'DAY (Gladiolus Bill)—La France pink, flushed over a cream ground, deepening at the edges, with soft yellow throat. Very early. (77 days). Each, 20c; dozen, \$2.00.

OTHER CHOICE GLADS

ALBANIA (Kemp)—Pure glistening white, with broad well rounded petals. (89 days). Each, 10c; dozen, \$1.

ALICE TIPLADY (Kunderd)—A bittersweet pink, suffused with scarlet on the outer edges, giving the appearance of orange saffron self color. (92 days). Each, 10c; dozen, \$1.00.

ALMA GLUCK (Gage)—A primulinus hybrid of brilliant peach red with rich yellow throat markings. Very distinctive and fine for cutting. Each, 10c; dozen, \$1.

ANNA EBERIUS (Diener)—Beautiful dark velvety purple, throat dark amaranth-purple, slightly ruffled. (97 days). Each, 10c; dozen, \$1.00.

CHAMELEON (Gladiolus Bill)—This choice glad is very difficult to describe as to color. We would suggest a soft cherry red. Each, 10c; dozen, \$1.00.

CHATEAU THIERRY (Vos)—An orange cerise with yellow bordered blotch red. (99 days). Each, 10c; dozen, \$1.00.

CRIMSON GLOW (Betscher)—Scarlet red, slightly stippled with primrose yellow in the throat, overlaid with a velvety scarlet blotch. One of the best of its color. (96 days). Each, 10c; dozen, \$1.00.

EARLY ONE (Bill)—Subdued begonia rose, amber yellow throat stippled with aster purple. (77 days). Each, 10c; dozen, \$1.00.

EVELYN KIRTLAND (Austin)—One of the best all purpose varieties. A La France pink, overlaid rose doree; throat blotched soft scarlet red. (101 days). Each, 10c; dozen, \$1.00.

GIANT NYMPH (Coleman)—A fine pink with wide open flowers, growing quite tall and vigorous. Each, 15c; dozen, \$1.50.

GOLD (Hoeg)—Pure, golden yellow, throat a shade deeper. A fine clear yellow, having large foret, many opening together. (92 days). Each, 10c; dozen, \$1.00.

HARMONIA (Fischer)—A fine primulinus with showy salmon self colored flowers. Each, 15c; dozen, \$1.50.

LOS ANGELES—The "cut and come again" gladioli. The blooms are orange pink with deeper blotch in the throat, delicately ruffled. (90 days). Each, 15c; dozen, \$1.50.

LE MARECHAL FOCH (Van Dursen)—Glistening white, suffused cameo-pink; reverse suffused light rose-lane purple. One of the best Holland introductions. (92 days). Each, 25c; dozen, \$2.50.

LUSTRE (Kunderd)—Tall large flowers orange vermillion. One of the best. (98 days). Each, 10c; dozen, \$1.00.

MRS. F. C. PETERS (Fischer)—A popular gladioli of Orchid color, amaranth pink with a purple blotch in the throat. (127 days). Each, 10c; dozen, \$1.00.

MRS. FRANK PENDLETON (Kunderd)—Deep rose pink, shading to a pale pink throat. Noted for its large bright rose red blotch on the lower petals. (98 days). Each, 10c; dozen, \$1.00.

MRS. LEON DOUGLAS (Diener)—Ground color begonia rose, striped with flame and brilliant scarlet. Lip



Golden Dream Gladiolus

pale lemon slightly speckled with ruby. The spikes of this variety are the largest grown and are very open. (99 days). Each, 10c; dozen, \$1.50.

MONA LISA (Kunderd)—A ruffled glad with palest pink flowers, sometimes called bluish-white. One of the most delicately colored flowers grown. (108 days). Each, 15c; dozen, \$1.50.

ORANGE PRINCE (Vos)—One of those rare colors among the Primulinus which makes them so desirable. Capucine orange slightly tinted deeper orange. A perpetual bloomer, and a sensation where shown. (92 days). Each, 10c; dozen, \$1.00.

PURPLE GLORY (Kunderd)—The giant of the Kunderdii Glory race. Deepest velvety maroon red, with almost black blotches burned into the petals. Beautifully ruffled. (99 days). Each, 20c; dozen, \$2.00.

RICHARD DIENER (Diener)—Pale geranium pink, occasional flaking of rose doree; throat blotched barium yellow, lightly stippled carmine; mid ribs sometimes barium yellow. A choice ruffled variety. (95 days). Each, 15c; dozen, \$1.50.

ROSE ASH (Diener)—Corinthian red shading into ashes of rose on the outer edges. Lower petals light yellow speckled with ruby. (100 days). Each, 10c; dozen, \$1.00.

SCARLET PRINCEPS (Kunderd)—Six or more massive Princeps-like blooms open at a time. Throat a little deeper in color. An extraordinary distinct and massive spike. (98 days). Each, 10c; dozen, \$1.00.

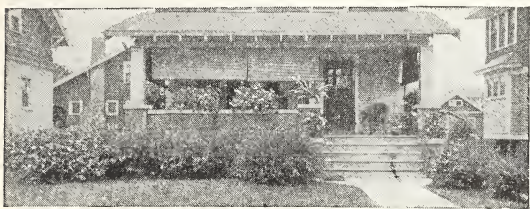
SPLENDORA (Kunderd)—A splendid very dark wine-black. Wonderful for planting with Mona Lisa for color effect. (93 days). Each, 10c; dozen, \$1.00.

SUPERBA (Coleman)—This glad calls forth more exclamations of admiration than any in our collection. The color is rich, glowing scarlet bordering on carmine. The blossoms are large, widely open and very showy. (77 days). Each, 25c; dozen, \$2.50.

OUR PALOUSE MIXTURE—A selected mixture of bulbs of the above varieties, together with others not included in the list. All bulbs are of good size, disease-free and will bloom the first season. If you are not interested in named varieties, this mixture will produce a wide variety of color. 50 bulbs, \$1.75; 100 bulbs, \$3.00.

Ornamentals

Our landscape department is waiting to help plan your plantings. Send us a sketch of your lawn, location of buildings, and note the present plantings, we will then prepare a sketch for you, showing our suggestions for permanent planting.



It is not necessary to invest a large amount in landscape plans and ornamentals the first season. Choose your plan and then add a few shrubs each year. We have started many toward more attractive home surroundings and they are completing the plans each year.

We can assure you complete satisfaction in your choice of our ornamentals as all plants have been grown without irrigation and are hardy, well rooted, and disease free.

All prices F. O. B. Lewiston. Order early, shipments made in season.

Parcel Post Notice. If you desire plants to be sent postpaid, allow 10c for each plant selected in the following list, otherwise plants will be shipped express collect: Ornamentals, shrubbery, roses, fruit trees and shade trees.

ALMOND—An early blooming hardy shrub bearing a profusion of rose-like flowers in May. Pink or white flowering, state color desired. Each, \$1.00.

ALTHEA—An attractive shrub with large showy brilliant colored flowers, height 6 to 10 feet when matured. Blooms in August. Flowers double white or red. 75c each.

BARBERRY (Japanese) — Dwarf, blooming in June, flowers yellow in color and fragrant, followed by red berries. Desirable for massing, hedges or as individuals. Each, 75c.

RED LEAVED JAPANESE BARBERRY—The most valuable red-leaved shrub, similar to green leaved Japanese Barberry except color is red. Color does not fade as season advances if planted in sunny location. Each, \$1.00.



Japanese Barberry

BUDDLEIA (Butterfly Bush)—A summer flowering plant 6 feet in height when mature, with violet mauve colored flowers. Each, 75c.

CARAGANA — Large pea-like flowers bright yellow in color, plants with bright green foliage. Each, 50c.

COTONEASTER — An erect semi-evergreen shrub with white flowers and later showy red berries. Each, 75c.

CORNUS (Red Osier Dogwood) — Spreading in growth. Branches are dull purplish red in color in winter, flowers creamy white. Each, 75c.

CORNUS (Floridus)—One of the best spring flowering small trees with white flowers. Bright red berries in fall. Each, \$1.00.

CRAB (Betchel's Flowering)—A very fragrant shrub-like tree, height 10 to 15 feet. Blooms in May with delicate pink colored flowers. Each, \$1.25.

CYDONIA (Japan Quince)—Height 5 to 6 feet. Blooms in May, flowers large, scarlet in color. Each, 75c.

DEUTZIA—Noted for its hardiness. Plants 3 to 6 feet tall, blooming in June.



Deutzia

Pride of Rochester—Large white flowers tinted with pink. Each, 75c.

Crenata Rosea—Deep rose-colored flowers. Each, 75c.

Lemoine—Dwarf, pure white flowers. Each, 75c.

ELDER (Golden)—Foliage bright golden yellow throughout season. Has very fragrant flowers. Each, 75c.

FORSYTHIA—These shrubs grow to a height of 8 feet, producing masses of yellow flowers in early April.

Fortunei—Medium size, erect. Each, 75c.

Suspensa—Drooping. Each, 75c.

Intermedia—Slender arching branches. Each, 75c.

THORN (Paul's Scarlet)—Suitable for growing in small yard and for grouping. Height 15 feet when matured. Blooms in May. Each, \$1.50.



Golden Elder

Ornamentals—continued

FLOWERING PLUM (Triloba)—Valuable for its fruit and foliage. Height 5 to 6 feet. Blooms in May. Each, \$1.25.

HONEYSUCKLE (Bush)—A bushy plant with immense clusters of flowers in May and June, followed by red berries.

Pink Tartarian—Flowers bright pink color. Each, 75c.

HYDRANGEA — The Hydrangea is desirable for its late summer blooms. The flowers are large ball-like masses of pure white color, changing to pink as they develop. Height 8 feet. Each, \$1.00.

Paniculata. Each, \$1.00.

Hills of Snow. Each, \$1.00.

LILACS—These common shrubs are always popular for their early bloom and fragrance.

Common Purple. Each, 75c.

Common White. Each, 75c.

Persian—Flowers pale purple. Each, \$1.00.

Rubra Major—Flowers reddish purple. Each, \$1.00.

Charles X — Reddish purple, strong rapid grower. Each, \$1.25.

M. Buchner—Double, blue flowers of unusual beauty. Each, \$1.25.

President Grevy — Double pale wisteria violet. Each, \$1.25.

LABURNUM (Golden Chain) — A beautiful tree of rapid growth. Flowers in June with drooping bright yellow racemes. Each, 50c.

MOCK ORANGE (Idaho State Flower)—Very hardy, branching shrub with fragrant orange like flowers. Blooms in May.

Phil. Coronarius—Pure white flowers. Each, 75c.

Phil. Grandiflorus—Flowers showy. Each, 75c.

Phil. Lemoine—Flowers snow white. Each, 75c.

Phil. Mt. Blanc—Erect growing shrub with small fine foliage and creamy white flowers. Blooms in June—an exceptionally fine variety. Each, 75c.

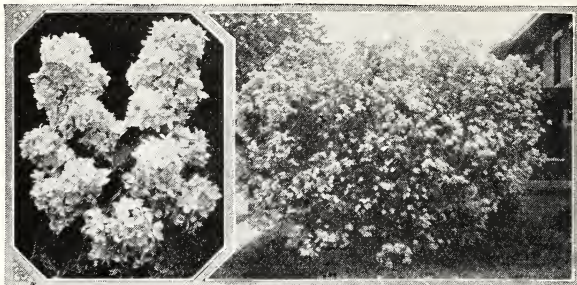
Phil. Virginal—Of recent introduction. Very beautiful flowering shrub. Blossoms snow white, semi-double. Very fragrant. Each, 75c.

OREGON GRAPE—A holly-leaved type of barberry. An evergreen which is half hardy and needs some protection in cold climates. Each, \$1.25.

PRIVET—One of the best plants for hedging. 2 year old plants. 100 plants \$15.00; each, 20c.

PURPLE FRINGE OR SMOKE TREE—Conspicuous spreading shrub or small tree. Has mist-like clouds of tiny flowers. One of the most beautiful of the large shrubs. Each, 75c.

ROSE ACACIA (Hispida)—Beautiful shrubs with pea-like flowers. Very fragrant. Each, \$1.00.



Lilacs

RUSSIAN OLIVE—These small trees are desirable for their silvery white foliage. They are very drought resistant. Fragrant yellow flowers. Each, 50c.

SNOWBALLS—Well known shrubs with large ball-like masses of white flowers. Fine for individual planting.

Common—Flowers globular, pure white....Each, \$1.00.

Japan—Plants spreading in growth. Each, \$1.25.

High Bush Cranberry—Berries follow flowers, very beautiful. Each, \$1.00.

SNOWBERRY—Common low-growing hardy plants with small pink flowers followed by waxy-white berries lasting into the winter season. Each, 75c.

SUMAC (Rhus) — These plants grow well in dry areas and are very hardy. Excellent for their brilliant fall foliage.

Copalina—Dwarf, with shiny leaves. Each, 75c.

Cut Leaf—Foliage finely cut and fern-like. Each, 75c.

SPIREA—The best plants found for banking near buildings and grouping. The foliage is graceful and drooping. Flowers are beautiful.

Anthony Waterer—Compact, low-growing, flowers pink. Each, 75c.

Billardi Rosea — Erect, bright pink flowers. Each, 75c.

Opulifolia (Ninebark)—Good for borders, flowers white. Each, 75c.

Opulifolia aurea—Foliage golden yellow. Each, 50c.

Van Houttei—Very graceful flowers, white in round clusters. Each, 50c.

Thunbergi—Dwarf, drooping branches, white flowers. Each, 50c.

Arguta—Foliage dense, flowers white. Each, 75c.

Froebel — Similar to Anthony Waterer, but flowers a more rose pink, young foliage tinged red. Brilliantly colored in autumn. Blooms all summer. Each, 75c.

TAMARIX—Hardy shrubs with slender spreading upright foliage. The leaves are fine and graceful. Flowers are of delicate pink and white colors. Each, 75c.

WEIGELIA — Fine border plants with trumpet flowers.

Candida—Blooms all summer, flowers white. Each, 75c.

Rosea—Flowers rose color. Each, 75c.

Eva Rathke—Dwarf, flowers carmine red. Each, 75c.



Snowball Bush



Spirea Van Houtte

Hardy Climbing Vines



Clematis

VIRGINIA CREEPER—A rapid growing vine for covering porch or windows. It is hardy. Leaves are of rich crimson color in fall. Each, 50c.

ENGELMAN CREEPER—The best vine for rock or brick walls, as the plant clings tightly to the crevices. Each, 75c.

TRUMPET VINE—A showy, hardy vine with trumpet flowers of brilliant orange scarlet color. Each, 75c.

CLEMATIS—One of the best vines for its fall flowers are of beautiful color.

Jackmanni—Large violet flowers. Each, \$1.00.

Paniculata—Flowers smaller, pure white. Each, 75c.

WISTARIA—A rapid growing vine with beautiful clusters of pendant flowers.

Blue—Flowers pale blue. Each, 75c.

White—Flowers pure white. Each, 75c.

DUTCHMAN'S PIPE (Aristolochia Siphon)—One of the most satisfactory vines for shading the porch or windows. The vine grows rapidly and is very hardy. The flowers are brownish in color and just the shape of a curved pipe. The flowers appear in early spring as the leaves are beginning to develop. The leaves are large, oval in shape, and produce a beautiful effect. Large rooted plants. Each, 50c.

Hardy Roses

All of our roses are hardy field grown stock, which will bloom the first season if given favorable growing conditions.

Parcel Post Notice—If you desire plants to be sent post-paid, allow 10c for each plant selected in the following list, otherwise plants will be shipped express collect; ornamentals, shrubbery, roses, fruit trees and shade trees.

FRAU KARL DRUSCHKI—A fine hardy rose of the American Beauty type with large double white flowers. Each, 75c.

MRS. JOHN LANGE—Free blooming hardy perennial with soft pink flowers. Each, 75c.



Frau Karl Druschki

OPHELIA — A vigorous growing hardy tea rose. Blooms early, producing salmon orange flowers. Each, 75c.

ULRICH BRUNNER—A hardy perennial with large flowers of deep red or scarlet color. Each, 75c.

MADAM EDOUARD HERRIOT—One of the newest shades of color, a coral red. Each, 75c.

LOS ANGELES—A hardy tea rose, flaming pink in color and free blooming. Each, 75c.

LADY HILLINGDON—Beautiful long pointed tea buds of deep yellow color. Excellent for cutting. Each, 75c.

SOUV. De CLAUDIUS PERNET — A vigorous growing attractive yellow. Each, 75c.

RUGOSA HYBRID PERPETUAL ROSES—Hardest of all roses.

Agnes E. Carman—Brilliant crimson. Each, 75c.

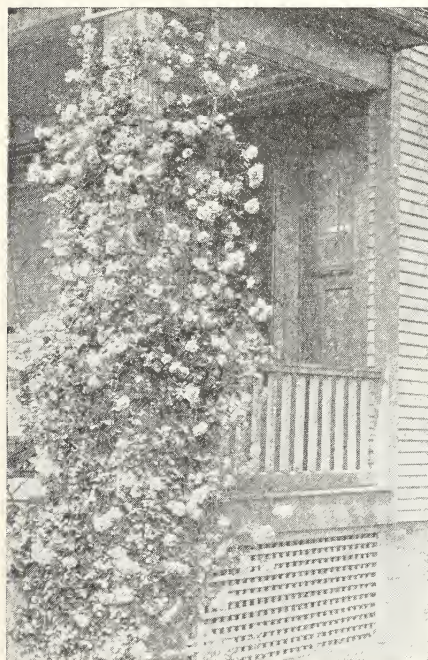
Sarah Van Fleet—Pink. Each, 75c.

Rubra Rugosa—Red. Each, 75c.

Climbing Roses

AMERICAN PILLAR—The best single flowered rose grown for trellis. The flowers are a bright crimson color. Each, 75c.

PAUL'S SCARLET—A vivid scarlet rose of intense color. One of the best climbers. Each, 75c.



Climbing Roses

Ornamental Trees

Parcel Post Notice—If you desire plants to be sent postpaid, allow 10c for each plant selected in the following list, otherwise plants will be shipped express collect: Ornamentals, shrubbery, roses, fruit trees and shade trees.

BLACK WALNUT—Beautiful foliage—very hardy, grown in any type of soil. Each, 75c.

BUTTERNUT—A fine shade tree hardy. Each, 75c.

BIRCH—Cut-leaf weeping—white bark with graceful drooping branches. Each, \$2.25.



Horse Chestnut



Chinese Elm

ELM (Moline)—A valuable new type with upright habit of growth with large leaves. A rapid grower. Ideal tree for street or lawn planting. Each, \$1.50.

ELM (Chinese)—Similar to American white elm but has more ornamental leaf. Very hardy, equally as rapid in growth as poplar. Stately. Each, \$1.50.

LINDEN (American)—Large tree, very beautiful. Leaves large, round, dull green. Each, \$2.50.

MOUNTAIN ASH (European)—Very showy in late summer because of its bright red fruits. A medium sized tree of unusual beauty. Each, \$1.25.

HORSE CHESTNUT—Very conspicuous when in bloom. Good lawn tree. Each, \$1.50.

Fruit Trees

PRICES F. O. B. LEWISTON

APPLES—Gravenstein, Delicious, Wagener, Rome Beauty. Each, 60c; 10 for \$5.50.

CHERRIES—Bing, Royal Ann, Lambert, Black Republican, Early Richmond. Each, 75c; 10 for \$7.00.

PEACHES—Early Elberta, J. H. Hale, Triumph. Each, 75c; 10 for \$7.00.

APRICOT—Moorpark Royal. Each, 75c; 10 for \$7.00.



Forage Crops

Our Seed Grades

Our seed grades are established with our regular customers but for the benefit of our new customers, let us describe them again.

Our "SUPREME" brand is the nearest perfect that can be offered. This seed contains very few, if any weeds, and then only those considered as harmless. It has an excellent color, is free of inert matter, and has a high vitality.

Our "IDEAL" brand is just as free of noxious weeds, but may contain a few harmless weeds, or a slight mixture of other crop seeds that are valuable in a hay crop. A saving in the cost of seed can be had if your crop is to be used for hay or pasture by purchasing this brand.

We could offer you cheap seed at lower prices, seed that contained noxious weeds, weather damaged seed, mixtures and the like, but we want you to feel free to order from us each season. We will endeavor to give you the best values for your money that can be offered. Remember that a COPY OF STATE TEST OF SEED WILL BE SENT ON REQUEST.

Alfalfa

CULTURE—Alfalfa is a principal crop, grown for hay on irrigated land and can be grown profitably on non-irrigated land where the rainfall is sufficient to produce one or more crops.

On irrigated land alfalfa can be seeded in the early spring or sown on land that has grown a crop of winter wheat after the wheat is harvested, planting during August or early September. In non-irrigated sections alfalfa can be planted as early in the spring as the seed bed can be prepared sowing from 8 to 12 pounds per acre. Many soils throughout the Pacific Northwest are deficient in sulphur and it is profitable to apply about 200 lbs. of Gypsum or land plaster to the acre in the late fall or early spring. Land which is to be seeded to alfalfa in the spring should be given a treatment of land plaster the previous fall.

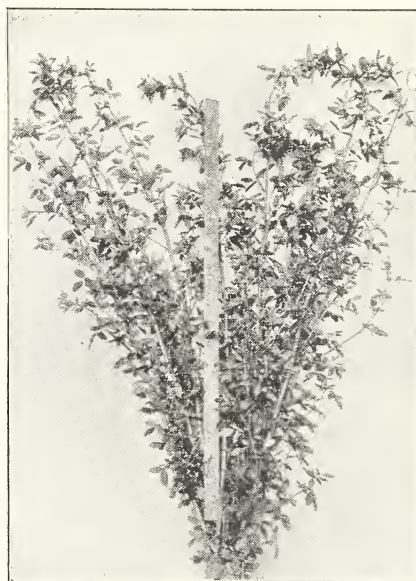
Grimm Alfalfa

Grimm Alfalfa is a distinct variety which originated in Minnesota. It produces a heavier and more branching root system than the common variety and is more resistant to winter killing and late spring frost. It yields slightly heavier than the common variety and produces variegated flowers. Grimm alfalfa should be used where winter killing is a problem but elsewhere the common is just as satisfactory.

STATE CERTIFIED—This grade of Grimm Alfalfa seed has been inspected in the field for truthness to name and after the seed is threshed and re-cleaned it must show a purity of 99.50 or better and be free of noxious weeds. If you are planning on growing alfalfa for seed purposes you should use this grade of seed. 10 lbs. postpaid, \$5.00. Write for quantity prices.

Sow Your Alfalfa with a WILL-BO SEEDER

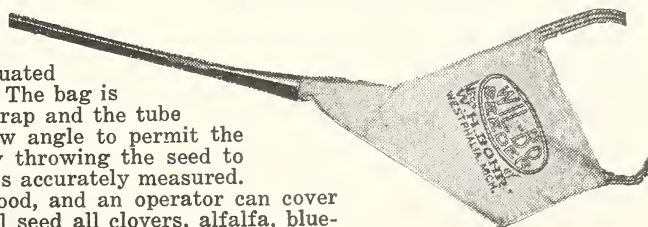
The Wil-Bo Seeder is made of best quality tin, with 27-inch tube, to which is attached a heavy drill bag. At the upper end of the tube is a regulator which is graduated to measure the amount of seed being sown. The bag is carried over the left shoulder by a heavy strap and the tube held in the right hand, swinging it at a low angle to permit the seed flowing from the end of the tube. By throwing the seed to cover 3 rods at a round, the rate of seeding is accurately measured. It works in windy weather as well as in good, and an operator can cover from 40 to 60 acres a day. The Wil-Bo will seed all clovers, alfalfa, bluegrass, timothy, and other small grass seeds. Price, postpaid, \$1.40 each.



Grimm Alfalfa

Common Alfalfa

HARDY UTAH-IDAHO COMMON ALFALFA—Our common alfalfa seed is secured from the higher elevations of Utah and is very hardy. While this seed sometimes does not have as bright a color as seed grown in Arizona and California it will produce a better crop and will not winter kill as readily. 10 lbs., \$3.50. Write for quantity prices.



Sweet Clover

CULTURE—Sweet Clover is one of the best crops for soil improvement and for dry land sections and can also be grown under irrigation. In non-irrigated sections it can be sown with a nurse crop of peas or seeded alone in early spring. In general, fall seeding throughout the Pacific Northwest is not satisfactory. In some localities it is possible to secure a good stand of alfalfa by seeding a mixture of sweet clover and alfalfa seed. The alfalfa becomes established by the time the sweet clover is gone. If continuous pasture is desired an area should be seeded each season to sweet clover, pasturing the old crop from May until the middle of the summer, then pasture the new crop until fall. The danger from loss of livestock on sweet clover pasture can be reduced by supplying the animals with plenty of dry feed during the pasture season. If the old crop of sweet clover becomes too coarse and woody it may be cut and allowed to cure in the field and will be eaten readily.

BIENNIAL YELLOW SWEET CLOVER—A variety with finer stems and more spreading in habit of growth. It blooms during the second year about two weeks earlier than the white variety. The flowers are yellow in color.

SUPREME—20c lb. postpaid; 10 lbs. \$1.75. Write for quantity prices.

Our Sweet Clover Seed is Scarified when necessary.

BIENNIAL WHITE SWEET CLOVER—This variety grows to a height of 6 or 7 feet during the second season, bearing white flowers. It is desirable for hay or pasture during the first season, but must be cut when not over 30 inches tall the second year to produce a good quality of hay. A high stubble must be left after the hay is cut the second year, as the late growth starts from buds on the old cut stems rather than from the crown as in the case of alfalfa.

SUPREME—20c lb. postpaid; 10 lbs. \$1.75. Write for quantity prices.



Clovers

MAMMOTH RED—Similar in appearance to the Medium Red Clover but growing larger and maturing later in the season. It reaches the best stage for hay along with timothy. We suggest a mixture of 6 lbs. of clover to 10 lbs. timothy per acre. The seed of this variety cannot be distinguished from that of Medium Red Clover.

SUPREME—Postpaid, 40c lb.; 10 lbs. \$3.50. Write for quantity prices.

MEDIUM RED CLOVER—This common variety is generally grown in mixtures with other grasses for hay or grown alone. If grown alone 8 to 12 pounds of seed is used while in mixtures 4 to 6 pounds is the usual rate. **SUPREME**—Postpaid, 35c lb.; 10 lbs. \$3.25.

LADINO CLOVER—New clover similar to white Dutch clover only growing much larger. Recommended

for pasture. This new clover is replacing Alfalfa in many sections. Postpaid, \$1.25 lb.; 10 lbs. \$11.50. Write for quantity prices.

ALSIKE CLOVER—This clover is generally sown on low ground or ground which remains wet fairly late in the spring. It can be sown alone at the rate of 4 to 6 lbs. per acre or in mixtures with Timothy, Red Top, and Meadow Fescue. For pasture we suggest a mixture of 5 lbs. Timothy, 3 lbs. Red Top, 5 lbs. Meadow Fescue and 3 lbs. Alsike.

SUPREME—Postpaid, 35c lb.; 10 lbs. \$3.25. Write for quantity prices.

WHITE DUTCH CLOVER—Used principally for lawn seeding but often used in pasture mixture or irrigated land. From 2 to 4 lbs. per acre is used for pasture mixtures.

SUPREME—Postpaid, lb. 60c; 10 lbs. \$5.50. Write for quantity prices.

Vetch

WINTER OR HAIRY VETCH—A fine legume for poor land for soil improvement. It is often grown in mixture with winter wheat or fall rye for hay or pasture, and planted alone as a cover crop for orchards. If sown alone, 30 to 40 lbs. are used per acre, or in mixtures with fall grain using one bushel of grain to 25 lbs. of vetch. The grain crop aids in supporting the vetch vines. More vetch should be grown for seed purposes on the lighter timber soils of the northwest.

SPRING OR COMMON VETCH—This vetch produces larger seeds than the winter variety and should be planted in early spring, using 40 to 50 lbs. per acre. It makes a fine fertilizer crop and can be used for hay or pasture as well.

Postpaid Prices, 3rd Zone—Frt. Extra

	1 lb.	10 lbs.	100 lbs.
Winter Vetch.....	20c	\$1.75	\$15.00
Spring Vetch.....	15c	1.40	12.00

Inoculate your alfalfa and sweet clover seed.



Vetch



Rape

Rape

DWARF ESSEX RAPE—Rape is used for hog and sheep pasture, making a rapid growth of succulent feed. It is quite hardy and withstands frost. It is sown in early spring and also late summer, planting in rows to permit cultivation or sown broadcast. From 5 to 12 lbs. of seed is required per acre, depending upon the method of seeding.

	Postpaid Prices, 3rd Zone	1 lb.	10 lbs.
Dwarf Essex	20c	\$1.75

Soy Beans

WISCONSIN
BLACK SOY

BEANS—Experimented with in this section last year. Makes wonderful pasture for midsummer pastures and produces good yield of hay per acre. Plant 25 lbs. per acre. Postpaid, 20c lb.; 10 lbs. \$1.75. Write for quantity prices.

Grasses

TIMOTHY—Timothy hay is in demand by lumber camps for horse feed. It grows best on low land which is well drained and free of surplus moisture. If sown alone use from 10 to 12 lbs. per acre and from 5 to 7 lbs. in mixture with other grasses.

SUPREME—Postpaid, 20c lb.; 10 lbs. \$2.25. Write for quantity prices.

ORCHARD GRASS—Orchard grass should be used in hay and pasture mixtures for dry land as it is hardy and drouth resistant. It starts early in the spring and produces pasture during the early fall. If sown alone 14 lbs. is required per acre. We suggest a mixture of orchard grass 5 lbs., Brome 5 lbs. and Slender wheat 5 lbs. per acre for a permanent pasture on non-irrigated land, adding a few pounds of clover if a legume is desired.

SUPREME—Postpaid, 40c lb.; 10 lbs. \$3.50. Write for quantity prices.

BROME—Brome grass is a hardy sod-forming grass, very drouth resistant, and stands tramping. It is very palatable and nutritious, and may be sown in mixture with Orchard and Slender wheat or in mixture with alfalfa.

SUPREME—Postpaid, 35c lb.; 10 lbs. \$3.00. Write for quantity prices.

RED TOP—A fine stemmed hardy grass for wet land. If sown alone 6 to 8 lbs. per acre are used. For a pasture mixture use 3 lbs. Red Top, 5 lbs. Timothy, 5 lbs. Meadow Fescue, and 3 lbs. Alsike per acre.

SUPREME—Postpaid, 40c lb.; 10 lbs. \$3.50. Write for quantity prices.

MEADOW FESCUE—A very hardy long-lived grass growing well on wet land as well as drier soils. It makes excellent pasture or hay. It requires about 15 lbs. per acre when seeding alone or 5 to 8 lbs. in mixture with other grasses.

SUPREME—Postpaid, 35c lb.; 10 lbs. \$3.25. Write for quantity prices.

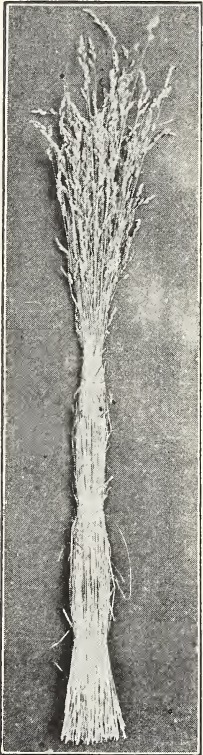
SLENDER WHEAT—A native grass of the northern Great Plains and is very drouth resistant. It grows in bunches, maturing with timothy. The plants are very erect, leafy, and the heads small and slender of wheat-like appearance. From 12 to 15 lbs. per acre should be

used when seeding alone or 5 to 10 lbs. in mixture.

SUPREME—Postpaid, 40c lb.; 10 lbs. \$3.50. Write for quantity prices.

SUDAN GRASS—An annual grass suitable as a catch crop in areas where the growing season is warm and entirely free of summer frosts. It may be drilled in rows wide enough apart for cultivation. This method requires 5 lbs. of seed per acre. If drilled for pasture or broadcast, from 25 to 30 lbs. are required.

SUPREME—Postpaid, 25c lb.; 10 lbs. \$2.00. Write for quantity prices.



Orchard Grass



Brome Grass

Sow your Grass Seed with a Will-Bo Seeder.

See page 35 for description.

Lawn Grasses

PREPARING THE LAWN

The majority of people who desire a new lawn generally seed a mixture of Blue Grass and White Clover. Such a mixture is satisfactory but does not produce the velvet-like appearance of some of the newer grasses which are being used in the best lawns.

In preparing the seed bed the soil should be thoroughly worked to insure against its settling and the surface should be loose enough so that the seed will germinate readily. If the soil is light and sandy granulated Peat Moss should be mixed with the surface soil. Lawn grass can be seeded very early in the spring and in many localities early fall seeding is satisfactory. If it is impossible to keep the surface moist by sprinkling several times during the day, a light covering of straw or lawn clippings will protect the surface from baking. After the grass seed has germinated this cover can be removed.

It requires about 1 lb. of lawn grass seed to 400 sq. feet of area. If you desire a mixture of grass we suggest using our Supreme Lawn Mixture which is made up of the best grade of grass seeds.

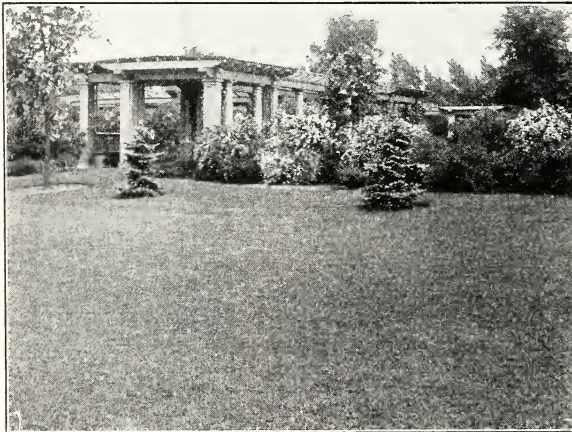
We believe that Bent grass should be used more generally for lawns, seeding it alone. An application of Ammonium Sulphate fertilizer used at the rate of 5 lbs. to 1000 square feet, followed by sprinkling will increase the vigor of the grass and reduces the dandelions and other weeds generally found in lawns.

KENTUCKY BLUE GRASS—One of the most popular grasses for lawns. It produces a heavy sod, is winter hardy, and grows well where plenty of moisture is available. May Dutch Clover. Postpaid, 75c lb.; 5 lbs. \$3.50. Write for quantity prices.

SOUTH GERMAN MIXED BENT — A mixture of Bent grasses used for golf greens and lawns. This grass stands shading and makes a very firm sod. The foliage is fine and velvety when kept clipped. Postpaid, \$1.30 lb.; 5 lbs. \$6.00. Write for quantity prices.

ASTORIA BENT—This species of Bent grass was discovered in the fields near Astoria, Oregon and was given that name. It is one of the best species of Bent as the leaves are very fine in texture and dark green. This Bent does well on high ground where moisture can be supplied and makes a beautiful sod. Postpaid, \$1.50 lb.; 5 lbs. \$7.00. Write for quantity prices.

CHEWINGS FESCUE—A New Zealand grass of fine grayish green foliage, which is very tough and wiry. It is used in mixtures on golf fairways and on lawns subject to heavy wear. This grass must be clipped often and given an abundance of water so that it will retain its color and heavy turf growth. Postpaid, 75c lb.; 5 lbs. \$3.25. Write for quantity prices.



Supreme Lawn Mixture

WHITE DUTCH CLOVER—Should be used in mixtures for lawns in need of soil improvement. This clover is a long lived perennial and generally reseeds sufficiently so that it increases yearly. 60c lb.; 5 lbs. \$2.75. Write for quantity prices.

SUPREME LAWN MIXTURE — This is our own mixture developed after careful trials. We believe it best for general purposes, as it makes a fine velvety lawn that withstands hard use. It is composed of the grasses listed above, in the right proportion for best results. This mixture is made from the best stock and does not contain chaffy seed. Postpaid, 5 oz. 45c; 10 oz. \$1.00; 5 lbs. \$4.50; 10 lbs. \$8.00.

Better Shrubs & Trees
VIGORO
Specially prepared plant food

Sunflowers

Sunflowers may be used as a silage crop at higher elevations than corn, as they withstand more frost. Experiments show that the quality and feeding value of the silage is comparable to that made from well matured corn. Under similar conditions sunflowers will outyield corn, but are somewhat more expensive to harvest. Sunflowers, when grown for silage, may be drilled thickly in the row by the use of a grain drill, stopping up the drills to permit cultivation of the crop. They may be sown with a corn planter, spacing the plants from 8 to 10 inches in the row. If a seed crop is desired the plants should be spaced at least two feet in the row.

MAMMOTH RUSSIAN—One of the largest varieties with a heavy growth of leaves and large heads. The seeds are striped with black and gray color.

	Postpaid, 3rd Zone	Frts. Extra
	1 lb.	10 lbs.
Mammoth Russian.....	20c	\$1.80
		100 lbs.
		\$15.00



Field Corn

7 to 8 pounds of seed required per acre.

Our selection of corn varieties is made to meet a wide range of growing conditions. It is impossible for us to produce all of our seed corn locally as climatic conditions do not permit the maturity of all of the varieties listed. The remainder of our seed comes from sections where climatic conditions are as nearly as possible to those in this area.

RUSTLERS WHITE DENT—Our stock seed was secured from the Agronomy Department of the University of Idaho where it has been under constant selection and improvement for many years. It is early in maturity, develops a good growth of stalk and medium size ears.

NORTHWESTERN DENT—Because of its dwarfed habit of growth this variety of corn is best suited to hogging off and for pasturing. The ears are borne close to the ground, the stalks 4 to 5 feet in height. The grains are red with yellow-white caps.

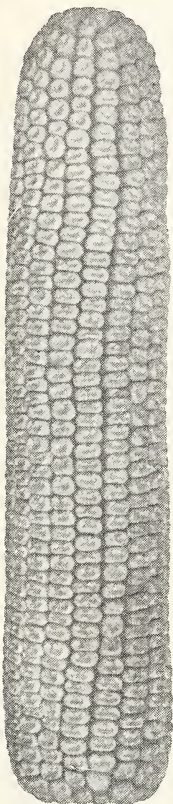
THAYER YELLOW DENT—Our strain of this variety was developed by the Agronomy Department of the Washington State College and is very early, producing a heavy yield of forage. One of the best early varieties for this section.

MINNESOTA NO. 13—A familiar variety developed in the northern part of the corn belt. It is hardy, producing a good leaf growth and nearly as early as Rustler and Thayer.

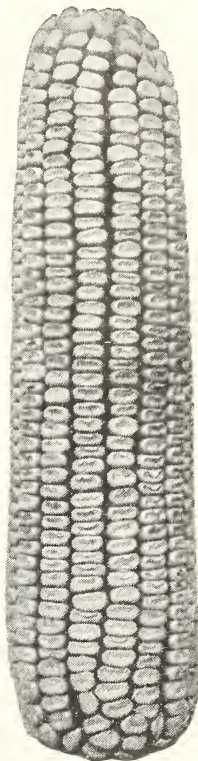
PRIDE OF THE NORTH—This corn is medium early in maturing, producing a heavy yield of silage but requiring a somewhat longer growing season than Thayer Yellow Dent. The ears are larger than those of Minnesota 13 with a greater depth of grain.

WISCONSIN WHITE—This corn was originally developed in Wisconsin and matures with Minnesota 13. The ears are fairly large in size with a good depth of grain.

IDAHO YELLOW DENT—We have secured a fine strain of early maturing yellow dent corn, grown in Northern Idaho at an elevation of 2000 feet. This corn has been selected and grown in the same locality for 5 years. If you want some real early maturing corn, order this stock.



Rustler
White Dent



Idaho Yellow Dent

All Field Corn.....1 lb. 15c; 10 lbs. \$1.00; 25 lbs. \$2.25
Postpaid Prices. 3rd Zone.
Write for quantity prices.

Spring Grains

Oats

SWEDISH VICTORY OATS—Our stock seed of Victory oats was imported direct from the Swedish Experiment station at Svalof and grown on our own seed farm. Victory is a high yielding white oat well adapted to both irrigated and non-irrigated sections of the Inland Empire. Our seed was certified by the State and owing to the limited supply, we are packing this seed in 50 lb. bags so that you can secure a start of this fine variety. 10 lbs. postpaid \$1.50; 50 lbs. \$6.00. Write for quantity prices.

MARKTON—A smut resistant white oat which has produced maximum yields throughout the northwest on irrigated as well as nonirrigated land. It is medium late in maturity, ripening with Idamine. The grains are medium in size, with a very thin hull, producing very few double grains. Our stock of Markton oats was grown on our own seed farm, and is very high quality. Postpaid, 10 lbs. \$1.00; 50 lbs. \$3.50. Write for quantity prices.

Flax

FLAX is grown to a limited extent throughout the northwest for grain. In the Willamette Valley in Western Oregon, it is grown for fiber. It should be planted on land free of weeds after frost danger is past, seeding about 30 lbs. per

acre. Postpaid, per lb. 20c. Write for quantity prices.

Barley

WHITE HULLESS—White Hulless Barley is grown for hay as well as grain. It can be planted with peas and grown for silage as well. Because of its being beardless it is desirable as a hay crop. 10 lbs. postpaid \$1.00. Write for quantity price.

BEARDLESS—This barley matures early and is used for hay and for silage. The grains have short points at the top instead of long barbed-like beards. Postpaid 10 lbs. \$1.00. Write for quantity price.

Rye

WINTER RYE—Winter Rye is often planted in the spring for pasture. Some farmers sow 20 to 30 lbs. Winter Rye with Sweet Clover in the early spring to reduce the chance of bloat in live stock and to increase the feeding value of the pasture. 10 lbs. \$1.00. Write for quantity price.

SPRING RYE—Similar to the Winter variety except that it matures a grain crop when planted in the spring. The straw is not so heavy as in the winter variety but the grains are similar in size. Postpaid 10 lbs. \$1.00. Write for quantity price.

Field Beans

ROBUST PEA BEAN—The Robust Bean was developed by the Michigan Experiment Station and is resistant to many diseases which reduce the yield of beans. It is a white bean suitable for commercial market. Our stock of seed was grown locally and is acclimated to conditions in the northwest. Postpaid, lb. 20c; 10 lbs. \$1.50. Write for quantity prices.

MICHIGAN PEA BEAN—This small white bean is a variety commonly known in Michigan for commercial dry market. Our stock of seed was grown from seed imported from Michigan last year. Postpaid, lb. 20c; 10 lbs. \$1.50. Write for quantity prices.

RED MEXICAN BEANS—These are similar in size and shape to the Pinto bean and in their habits and growth resemble them very much. There is quite a demand for these beans for chili. They are excellent cookers. A small patch would undoubtedly bring satisfactory returns. Lb. 20c; 5 lbs. 80c; 10 lbs. \$1.50. Write for quantity prices.

NAVY OR PEA BEANS—The best known white bean in the world. More Navy beans are consumed than all other varieties combined. They always command a higher price than the other varieties, except Limas. They produce almost as much as Pinto beans, and are a sure crop under ordinary conditions. They make good yields on

dry lands, and large yields when grown under irrigation. Lb. 20c; 5 lbs. 80c; 10 lbs. \$1.50. Write for quantity prices.

RED KIDNEY BEANS—Will produce crop of first class beans and are a success in the West. They are excellent canners and richly flavored. They are found in every grocery store and are so well known that a description is useless. Their habits of growth are similar to the Pinto. There is quite a large local demand for the dry beans. Lb. 25c; 5 lbs. \$1.00; 10 lbs. \$1.75; 25 lbs. \$4.00. Write for quantity prices.

BAYO BEANS—Similar to California Bayo beans. Our seed grown in this section. High commercial value and good table bean dry. Postpaid 20c lb.; 10 lbs. \$1.75. Write for quantity prices.

LARGE WHITES (Lady Washington Beans)—This bean is similar to the Navy and often sold as such. It is also known as White Mexican, White Kidney and Western White Wonder. It is larger than the Navy and will make a crop where the Navy would fail. It is a heavy yielder and the beans have a very fine flavor when cooked or baked. This variety is in great demand as a dry bean for winter use and will give satisfaction on either dry or irrigated land. Lb. 20c; 5 lbs. 80c; 10 lbs. \$1.50. Write for quantity prices.

Field Peas

All of our peas are thoroughly fumigated and cleaned to remove weevil and are put up in excellent condition for seed. You cannot afford to plant seed that is not treated and properly cleaned.

ALASKA—An early maturing pea with slender vines growing to a height of 2 feet. The pods are straight, blunt, and well filled, all maturing at about the same time. The seed is smooth, round, dimpled, and of light blue color. Postpaid lb. 15c; 10 lbs. \$1.25. Write for quantity prices.

BLUE BELL—The plants of this pea are more stocky in habit of growth and later than the Alaska. The pods are larger and produced in clusters toward the top of the plant. The seeds are large, smooth, and of light blue color. Postpaid lb. 15c; 10 lbs. \$1.25. Write for quantity prices.

WHITE CANADA—A fine variety for commercial peas as they yield well and produce a small, smooth yellow seed of good quality. Postpaid lb. 15c; 10 lbs. \$1.25. Write for quantity prices.

MIXED PEAS—If you are in need of inexpensive pea seed for hog pasture or stock feed, these peas will meet your requirements. They are a mixture of smooth and wrinkled peas, carefully cleaned and fumigated and will give you as good a return as high priced seed for the above purpose. Postpaid 10 lbs. \$1.00. Write for quantity prices.



Alaska Field Peas

Bee Supplies

	K. D.	S. U.
HIVE:		
1-Story, 8-frame ..	\$2.75	\$3.50
Section Super Body ..	.70	.80
STANDARD EXTRACTING FRAMES:		
Set up, wired and with foundation, each .....		.26
Same (shallow frames) each ..		.22
FOUNDATION: 1 lb. 5 lbs. 10 lbs.		
Medium Brood \$..	.80	\$3.00 \$7.00
Thin Brood.....	.90	4.25 8.30
	10	50 100
Honey Sections, pound ..	.20	.85 \$1.60
Section Holders ..	.60	2.75 5.00

Slotted Wood Separators...	.20	.90	1.65
Standard Hoffman Frames..	.70	3.20	6.00
Shallow Hoffman Frames...	.60	2.75	5.25
EQUIPMENT:			
Carlin Foundation Cutter..	\$.40		
Spur Wire Imbedder.....	.40		
Section Scraping Knife.....	.50		
Hive Tool, 10 in. 75c; 8 in. .	.65		
Handy Section Press.....	.75		
Parker Foundation Fastener	.50		
Uncapping Knife	1.50		
Bee Brush .....	.50		

Bee Gloves, heavy oil treated canvas	1.25
Bee Escape .....	.20
Bee Veils	1.25
Bee Smokers, small, \$1.15; medium, \$1.90; large....	2.25
Bee Wire, 1 lb., 60c; ½ lb., 35c; ¼ lb., 25c; 2 oz. ....	.20

BEE BOOKS:

First Lesson in Bee Keeping	1.00
Beginner's Bee Book.....	1.25
ABC and XYZ of Bee Keeping	3.50
Write for further information.	

FERTILIZERS



All Plant Life Must Have Food

LIKE human beings plants require a balanced diet for normal, healthy growth.

Vigoro, the complete, scientifically prepared plant food, contains all the nourishment necessary to produce thick, velvety-green lawns; large, richly colored flowers; early, delicious vegetables; and healthy, full-foliaged trees.

Vigoro is clean, odorless, and easy to use. It's economical, too! Full directions in every bag.

Prices	
100-lb. bag	\$ 6.00
50-lb. bag	3.75
25-lb. bag	2.00
5-lb. pkg.	.60
12-oz. pkg.	.10

F.O.B. Lewiston

VIGORO
Complete plant food

A product of
Swift & Company



For Lawns, Gardens, Flowers, Shrubby, and Trees

RED STEER

Each year we are realizing more the value of good commercial fertilizer and how to apply it. Write us your field, garden and orchard troubles and we will give you the knowledge which years of experience and intensive studying has proven to us. Many crop failures and unprofitable crops are due directly to lack of proper plant food in the soil. All fertilizers contain three essential plant foods: Nitrogen, Phosphoric Acid, and Potash. In naming the amount of plant foods available in fertilizer they are named always as given above, that is, a fertilizer that is called 2½-10-20 contains 2½ per cent nitrogen, 10 per cent phosphoric acid and 20 per cent potash. All of our analysis are given for soluble or available plant food only. Unavailable plant foods are of no value to you. We also carry the separate plant food fertilizers.

0-10-20

For Apples producing green fruit and too much wood growth; where nitrogen is plentiful. Comes in 125-lb. bags; per cwt. \$2.60; per ton, \$52.00.

3-10-10

A good all-around fertilizer where conditions are normal. 125-lb. bags; per cwt. \$2.90; per ton, \$55.70.

2.5-10-20

Soft Fruit Crops where better set and quality is desired. 125-lb. bags; per cwt. \$3.25; per ton \$62.50.

MURIATE OF POTASH

This fertilizer is especially valuable to fruit trees and berries. Price, 100 lbs., \$3.00; write for quantity price.

action and should be applied in the fall or very early spring. Use 1,000 to 2,000 lbs. per acre.

Prices: 5 lbs., 30c; 10 lbs., 50c; 100 lbs., \$3.00; ton, write.

NITRATE OF SODA

It is very quick in action, stimulating rapid growth. Being quickly soluble, it should not be applied until spring on garden truck.

Prices: Lb., 15c; 5 to 10 lbs. at 7c; 15 to 25 lbs. at 6c lb.; 100 lbs., \$3.75; write for quantity price.

SUPERPHOSPHATE

This is what is known as acid phosphate, being phosphate rock that has been treated or processed, to make the phosphoric acid available. Has become very popular among grain and fruit growers. Use at the rate of 300 lbs. and up per acre.

Prices: 100-lb. sks., \$2; 5 to 10 sk. lots at \$1.75. Ton price, write.

LAND PLASTER

(Gypsum.)—An indirect fertilizer as it releases plant food and changes soil conditions. Used largely on grass and clover crops.

Prices: 100 lbs., \$1.00; \$15.00 ton F. O. B. Lewiston.

SULPHATE OF AMMONIA

Strong in nitrogen. Will stimulate growth almost immediately.

Prices: Lb., 10c; 5 lbs., 30c; 25 lbs., \$1.10; 100 lbs., \$3.50.

Quality Chicks

Cost you no more

See Inside Front Cover

BONE MEAL FERTILIZER

This is finely ground and of best quality. Used for lawns, roses, shrubs and trees. Not very quick in

Insecticides and Fungicides

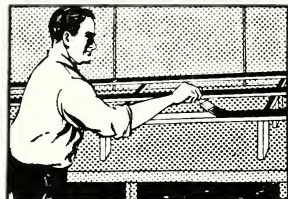


effectively on ants, rats and insects. Comes in granular form or dust to use in dust gun.

Prices F. O. B. Lewiston. Cannot be mailed.

	1 lb.	5 lbs.	25 lbs.	100 lbs.
Granular	75c	\$1.75	\$5.50	\$20.00
"A" Dust	75c	2.50	5.50	20.00

PAINT THE ROOSTS



WITH "BLACK LEAF 40"

DRY LIME SULPHUR

Baume lime and sulphur converted into a dry powder but having all the effectiveness of the liquid product when dissolved in water. For use on dormant spraying against scale, peach blight, leaf curl and twig borer. Summer spraying against scab, soot, blotch, red spider and mite.

1 lb.	\$.20	25 lbs.	\$ 3.50
5 lbs. ....	.90	50 lbs.	6.00
10 lbs.	1.75	100 lbs.	11.00

BLACK LEAF 40

Destroys aphids, thrips, leaf hoppers on all trees, bush and vine plants, vegetables, field crops, flowers, shrubs; also apple red bug, pear psylla and similar soft-shelled sucking insects—all without injury to foliage. It is also a control for poultry lice by painting the roosts with it. Combines readily with other sprays. 40% nicotine.

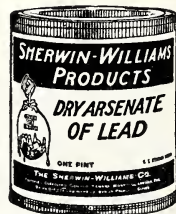
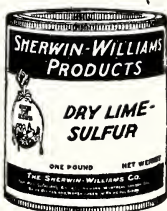
1 oz., 6 gal. spray	.....	\$ .35
1 lb., 40 to 120 gal. spray	.....	1.25
2 lbs., 160 to 500 gal. spray	.....	3.25
10 lbs., 800 to 2500 gal. spray	.....	11.85

ARSENATE OF LEAD

Dry Powdered

Contains only arsenic and lead oxides. No fillers. Mixes quickly and easily—stays mixed longer and sticks better to leaves, branches and fruit than any other arsenate. A light, fluffy powder that cannot freeze, dry out, cake or lose its strength—carries the highest possible percentage of arsenic oxide, 33%—is always uniform and requires only 1 lb. to 50 gallons of water. Efficient, economical and convenient. Highest percentage of killing power.

1/2 lb., 20c; 1 lb., 35c; 4 lbs., \$1.



Increase Farm Profits and Gardening Pleasures

Prevent Disease Losses by Using Du Bay Seed Disinfectants

SEMESAN—for vegetable and flower seeds

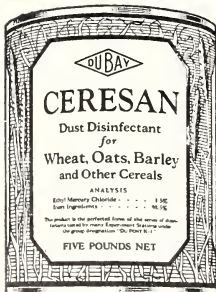
Diseases often reduce germination and result in a poor stand, lowered quality and reduced yield of vegetables and flowers. Kill these harmful disease organisms on the seed with Semesan before planting. Semesan may be applied as a dust or liquid and is harmless to seeds, effective in controlling damping-off of seedlings and certain cuttings. Full directions in can for use on vegetable and flower seeds and bulbs. Prices: 2 oz., 50c; 1 lb., \$2.75; 5 lbs., \$13.00; 25 lbs., \$56.25.

SEMESAN BEL—for seed potatoes

Potato diseases cause a loss equivalent to the yield of one acre in every five or six acres planted. Much of this loss can be prevented by treating seed before planting with Semesan Bel, the instantaneous dip disinfectant. Effective in controlling such seed-borne diseases as scab, rhizoctonia and black leg. Protects seed piece from rotting caused by certain soil borne organisms, improves germination and usually produces a bigger crop of better quality. One pound treats 16 to 22 bushels of seed. Prices: 4 oz., 50c; 1 lb., \$1.75; 5 lbs., \$8.00; 25 lbs., \$13.25.

SEMESAN JR.—for seed, field and sweet corn

Our corn crop is reduced over 80 million bushels annually by diseases that are carried on the seed. Destroy these costly diseases by treating your seed corn with Semesan Jr. Simple, quick, effective. Costs only 2 1/2c an acre. Harmless to seed, does not slow up the rate of drop. Semesan Jr. destroys harmful disease organisms on the seed, protects seed from rotting in cold wet soil, makes earlier planting possible, controls seedling blight, reduces root and stalk rots and generally increases crop yields. Use 2 oz. per bushel of seed. 4 oz., 50c; 1 lb., \$1.75; 5 lbs., \$8.00; 25 lbs., \$31.25.



CERESAN—for seed grains

Why lose part of your grain crops through smuts and other diseases? Prevent them and protect your profits by treating all seed grains with Ceresan before sowing. Effective in controlling stinking smut and seed-borne flag smut of wheat; seedling blight of cereals caused by seed-borne scab; smuts of oats; covered smut and stripe of barley; kernel smuts of sorghums and millets; and seed-borne stem smut of rye. Seed may be treated in spare time. Ceresan is harmless to seed and does not injure grain drills. Only 2 ounces needed per bushel of seed wheat, rye, sorghums or millets and 3 ounces for oats and barley. Prices: 1 lb., 75c; 5 lbs., \$3.00; 25 lbs., \$12.50.

DUBAY SEED DISINFECTANTS

COPPER CARBONATE**For treating wheat.**

Eighteen per cent copper carbonate is used in dry areas where less danger of smutting is encountered. **5 lbs., \$1.25; 30-lb. case, \$6.00.**

50 Per Cent Copper Carbonate

Used generally by farmers of this section.

Universally accepted as best wheat treatment for smut. **Sherwin-Williams Brand.**

5 lbs., \$1.50; 10 lbs., \$2.75; 40-lb. case, \$9.75. Not available. Price F. O. B. Lewiston.

Dr. Wilson Dust Mask

Protects you from Coppercarbonate while mixing with wheat. **Each, \$2.25; postpaid.**

Filter Pads for Dust Mask

100 pads, \$1.15 per box; postpaid.

THE REAL IMPROVEMENT IN INOCULATION

Modern farmers demand modern methods of farming and agree that all legume seed should be inoculated. Good inoculation puts nodules on the roots of such plants as alfalfa, clover, peas, beans, soybeans and vetches. Nodules on the roots gather nitrogen from the air, that is, fertilizer at low cost.

McQUEEN'S INOCULATOR is the only nitrogen-fixing bacterial culture that is **ABSOLUTELY GUARANTEED** to give satisfactory results, or your money back (read guarantee on every package). This guarantee is your best protection—you are the judge. Use McQueen's with confidence, as thousands of others have done for many years.

McQUEEN'S INOCULATOR produces nodules; thus increases the crop—improves the quality—makes the soil a richer and better soil for crops that follow.

It's easy to use **McQUEEN'S**—Apply it wet or dry—simplicity itself—takes only a few minutes' time to apply to seed. It is quality merchandise. Large volume of sales permits the following:

REDUCED POSTPAID PRICES

Always State on Order the No. of Seed You Want to Treat

FOR SMALL SEEDS

No. 1 for Alfalfa and Sweet Clover.

No. 2 for Field Alsike and White Clover.

$\frac{1}{2}$ -bu. size (30 lb. seed).....\$.50
1-bu. size (60 lb. seed).....1.00
 $2\frac{1}{2}$ -bu. size (150 lb. seed).....1.75

FOR LARGE SEEDS

No. 3 for Vetches, Field and Garden Peas.

No. 4 for Field and Garden Beans.

1-bu. size (60 lb. seed).....\$.50
2-bu. size (120 lb. seed).....1.00
5-bu. size (300 lb. seed).....1.75

GARDEN SIZE, combination culture, for PEAS, BEANS and SWEET PEAS in 2 sizes. **PACKET size, 20c; HALF-BUSHEL size, 50c.**

Be sure to include McQueen's Inoculator with all your Legumes Seed Orders.

Two Great Pest Controls

That Rid Your Home of Ants and Garden Pests—Quickly, Safely and Surely!

1. ANTROL For sweet eating ants—the kind that infest the house and are frequently seen on plants and trees. This is a complete system adapted to any size house, composed of small glass containers and special Antrol syrup. The containers are partially filled with syrup and then placed about the outside edges of the house. Ants smell the mildly poisonous syrup, eat it and then transmit it to their queen. Soon the entire ant nest is destroyed.



Prices—Antrol sets containing 4 containers and 1 4-oz. bottle of syrup.....\$0.95
Antrol extra containers (each)......15
Antrol syrup, 4 oz. bottles......45
Antrol syrup, pints......95
Antrol syrup, gallons.....3.75
Note—Enough containers and syrup should be purchased to place one container every 15 feet around the house or along ant "trails" in the garden.

2. SNAROL For cutworms, sowbugs, grasshoppers, slugs, snails, earwigs, and other garden pests.

This is a ready-prepared meal that you simply broadcast about the garden on the ground under the vegetation. The pests eat this meal in preference to vegetation, and are quickly destroyed. Rains and sprinkling do not lessen the efficiency of Snarol. Also Snarol is non-injurious to vegetation. Indorsed by gardeners and nurserymen everywhere for best results.



Prices—1-lb. packages, 45c; 3-lb. packages, 95c; 15-lb. bags, \$3.50; 50-lb. bags, \$9.50.

**CHEMICAL WEED KILLERS
SODIUM CHLORATE**

Sodium Chlorate is the most effective chemical known for the eradication of noxious weeds. This fact has been demonstrated many times by tests carried on by several of our leading agricultural experiment stations. Mixed with water and sprayed thoroughly on leaves and stems of Morning Glory, Canada Thistle and Quack Grass, and many other enemies of the farmer, it will work wonders.

Apply after the plants have reached the stage of early maturity. Best results will be obtained if the ground is left unplowed and uncultivated the season in which the Sodium Chlorate is to be applied.

Sodium Chlorate when combined with combustible material is dry and inflammable but by using precautions that are necessary in using other inflammable materials, which are in use daily, this danger is easily avoided.

Per lb., 20c; 10 lbs., \$1.75; 25 lbs., \$4.00; 110-lb. drums, \$14.30; F. O. B. Lewiston.

CALCIUM CHLORATE**(Attaicide)**

Combination of chemicals in which Sodium Chlorate is used. Is recommended very highly as weed killer and is used same as Sodium Chlorate. Mixed with water and sprayed on weeds at rate of 1 lb. per gallon of water.

50 lbs., \$7.00; 100 lbs., \$13.00; 200 lbs., \$26.00. Prices are all F. O. B. Lewiston.

FISH OIL SOAP

For aphids, plant lice, etc., and to mix with Black Leaf 40 to make it stick to foliage. **Prices: Small cake, 10c; lb., 25c; 10 lbs., \$2.00; 100 lbs., write.**

ACME BORDEAUX MIXTURE

Prevents large losses caused by blight, rot, mildew, scab, anthracnose and certain other fungus diseases. It stimulates plant growth and greatly increases the harvests. Almost every kind of vegetable, fruit and shrub can be greatly improved by the early use of Bordeaux Mixture.

1 lb. carton, 45c; 4 lb. bag, \$1.10; 8 lb. bag, \$2.00; 100 lb. drum, \$15.00.

KAYSO

KAYSO spreads the spray and makes it stay. If you have never used this in your poison solution get a package now, try it and you'll find it will make the liquid go much farther and be far more effective. Kayso causes the spray to "spread" and cover the entire surface and holds it to the surface. Pkgs., 25c and 50c; 10 lbs., \$2.10; 50 lbs., \$9.50; 100 lbs., \$18.00.

PRUNING COMPOUND or PAINT

Always use it over new cuts. It forms an elastic film that seals open cuts. Prices: Qt. cans, 65c; gal., \$2.25.

BLUE STONE

BLUE STONE (Vitrol)—Lb., 15c; 10 lbs., \$1.25.

VOLCK

In greenhouses and out of doors, for all types of plants and the tenderest of flowers, this material has proven effective. It leaves the foliage bright and glossy. For killing Red Spider in all stages—eggs, nymphs and adults, Volck gives a complete kill and a prolonged control. Being non-poisonous to people and animals, it is a very pleasant material to use. Use Volck for Cyclamen Mite, White Fly, Aphid (Green Fly), Thrips, Mealy Bugs, Scales, Midge, Mildews and Rusts. Complete instructions with each can. One pint Volck makes 10 gallons spray. Three level teaspoonfuls makes 1 gallon.

PRICES.— $\frac{1}{2}$ -pint 50c; pint, 75c; quart, \$1.00; gallon, \$3.00. Small cans will be mailed if you add postage.

PARIS GREEN

Is a strong effective poison for leaf eating insects. Prices, not prepaid, $\frac{1}{4}$ -lb. fibre carton, 20c; 1-lb. fibre carton, 50c.



GRAFTING WAX

The old standby of orchardists in the Northwest. Made after a special formula and packed in convenient package with instructions for use.

Quarter pound, 25c; half pound, 35c; pound, 50c.

DUSTING SULPHUR

Sublimed Velvet Flowers of Sulphur

All of the desirable qualities of dusting sulphur are combined in this product.

It is 100 per cent pure and has great bulk or volume per pound, its fluffy, light particles always remain free running, it never cakes or hardens. Its spider-web like texture enables it to adhere not only to the upper but also to the under side of the foliage. The gas formed by the "fuming" action is often noticeable for a great distance from the treated area. Its effectiveness cannot be surpassed.

1-lb. cartons, 25c; 10-lb. cartons, \$2.00.

DAIRY FLY-FOIL

Double-Acting. Both Kills and Repels Flies

Dairy Fly-Foil has proven itself the most desirable fly spray for dairy use, because it is double-acting. Dairy Fly-Foil not only kills the flies on cows, and in the barn with which its mist comes in contact, but actually repels the flies, and keeps the cows free from the fly annoyance for many hours. 1 qt., 75c; $\frac{1}{2}$ gal., \$1.10; 1 gal., \$1.90.

Grange Garget Remedy

Manufactured by The Dairy Association, for that serious disorder peculiar to cows, and which is a disease by itself. Grange Garget Remedy goes scientifically to the seat of the trouble. Can, 65c.



CALF MEAL

A real calf meal that will produce better calves. Easy to give and calves like it. 25 lbs., \$1.60; 100 lbs., \$5.90. F. O. B. Lewiston.

KOW KARE

Wonderful remedy for cows. Sold in two sizes, 65c and \$1.25, postpaid.

BAG BALM

Can, 60c, postpaid.



Poultry Remedies and Supplies

EPSOM SALTS

To keep chickens in top-notch condition it frequently becomes necessary to administer laxative doses of Epsom Salts. Following infections of roup, sorehead, etc., and treatment with tobacco for worms, purgative doses are sometimes advisable. Directions for both are found on the package. This salt is fine technical quality, imported from Europe.

1 lb. carton, 20c; 10 lbs. \$1.50. Postpaid.

VITA BRAND COD-LIVER OIL

The importance of vitamins in the rations of poultry and livestock has been quite clearly defined during recent years. Especially are the fat soluble vitamins, A and D, important in the maintenance of bodily vigor and prevention and cure of diseases.

5 gallon cans, \$9.00; 1 gallon cans, \$2; quart cans, 85c.

POULTRY PEPPER

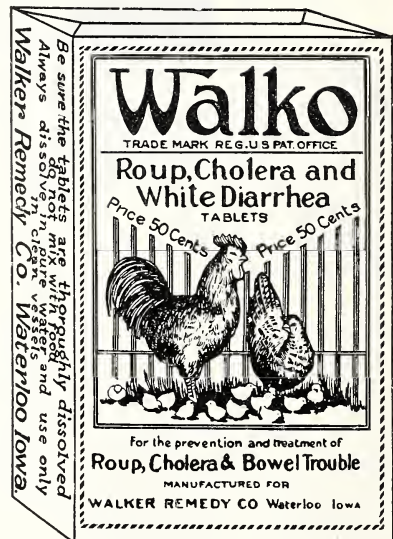
In cold, wet weather it gives tone to the system, puts vim and snap into the birds, and is a great help to egg production.

Carton, 12-oz., 25c; postpaid.

TOBACCO POWDER

A very effective agent for controlling round worms in poultry. Used also quite generally in the dust bath for body vermin, and a very effective fumigant when burned in poultry houses.

1 lb. 20c; 10 lbs. \$1.50. Postpaid.



WALKO

The safe way to raise your chicks. Also used for older chickens. Place in drinking water or milk. Tablets, per box, 50c.

LESLIE PET-LICKS

Rabbits, Cavies and Pigeons need salt and it should be before them at all times. Pet-Licks are of high quality salt and the correct per cent of sulphur. Nail or wire up out of the litter, but within easy reach. Prices: 2 for 15c; screw-top carton of 10 cakes (wgt. 2 lbs.), 60c; add postage if wanted by mail.

BABY CHICKS

We can supply baby chicks in season, from reliable breeders. Write for prices. See Inside Front Cover.

LEE'S LOUSE POWDER

Contains Sodium Fluoride

While we recommend keeping the hen houses and fowls free from lice and mites by the liberal use of Lee's Lice Killer once a month, Lee's Louse Powder will be found of great value and convenience in dusting setting hens and chicks or for giving an especially lousy fowl individual treatment. The first thing to do in examining a sick hen is to look for lice and mites. A good dusting with this powder is the quickest and best remedy. Packed in round, sprinkler-top cans, it is handy and convenient to use on chicks or adult fowls.

1 lb., 30c; 2½ lbs., 60c; add postage.

LEE'S LICE KILLER

The Great Poultry Insecticide and Disinfectant

Under the best of conditions, the poultry house is a nesting and breeding place for lice and mites, insects, germs and bacteria of many kinds. Once they get a foothold they multiply with miraculous speed.

One cannot daily wash, scrub, disinfect and maintain scrupulous cleanliness in a chicken house; so, naturally, for work of this kind, one has to adopt occasional but regular use of the most powerful and lasting killer of insects and germs that can be obtained.

Lee's Lice Killer has been the Standard Poultry House Insecticide for 30 years. Sprayed full strength about the house once a month, with especial liberality on roosts, and in all cracks, crevices, and end joints, of roosting places and nest boxes, in all-round efficiency and lasting quality it is not equaled. The monthly use of this marvelous insecticide is more effective than a daily scrubbing with soap and water.

1 qt., 60c; ½ gal., 90c; 1 gal., \$1.50. Add postage.



LEE'S DIP AND DISINFECTANT

A Coal Tar Creosote Stock Dip and Disinfectant



Lee's Dip is highly concentrated, containing not over 8% inert matter. (Water sufficient to prevent gelatinization during cool weather.) One gallon makes from 50 to 100 gallons dipping or disinfecting solution, quantity depending upon what it is to be used for.

See inside back cover page for sizes and prices.

Analysis of Lee's Dip will show:

Active ingredients:

Phenols, or Tar Acid—Not less than 20% by volume.

Hydrocarbons—Not more than 50% by volume.

Rosin Soap—24% by weight.

Inert Ingredient:

Water—Not more than 8%.

1 qt., 75c; ½ gal., \$1.25; 1 gal., \$2.00. Add postage.

GERMOZONE

For 35 Years It Has Proven Its Worth

Germozone has been the favorite medicine among poultry raisers for more than a third of a century. It is, without doubt, the most widely used poultry medicine on the market today, and that popularity is due entirely to its merit. It is not "good because it's old," but "old because it's good."

Some have thought, because of its purple color, Germozone is only a solution of Permanganate of Potash and water. It is not. Germozone contains five powerful ingredients—a permanganate, a chlorate, two chlorides and a sulphate. These additional ingredients often mean the difference between saving and losing your flock.

Germozone contains the same marvelous purifying agent—chlorine—that city health authorities use to prevent the spread of disease through city drinking water. Chicks huddled closely together are bound to pick into and step in their droppings, carrying this filth and contamination into their feed and drinking water. Diarrhea, crop and digestive disorders are the inevitable result.

12 oz., 75c; 32 oz., \$1.50. Add postage.

VAPO-SPRAY

With the First Cough Treat the Flock

Vapo-Spray is the most effective medicine for colds, coughs, flu and pneumonia. All disease is progressive, going from bad to worse. This is especially so with colds in poultry. With the first cough, treat the entire flock with Vapo-Spray. As a sneeze develops into a cold, the fowl's head fills with pus, which may quickly progress into the dread disease, roup. Stop the cough and cold with Vapo-Spray before it becomes serious.

Vapo-Spray makes unnecessary the long, hard job of dipping the heads of the fowls individually. It is easier, cheaper and more effective. Simply spray the air in the hen house at night with Vapo-Spray. The birds breathe in the soothing vapors of the healing oils in Vapo-Spray.

½ gal., \$1.25; 1 gal., \$2.25. Cannot be mailed.



GIZZARD CAPSULE

Five Times as Effective—Easy to Give

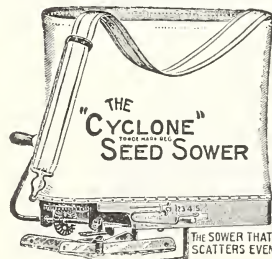
The Gizzard Capsule is five times as effective as worm medicines given in the feed and water, which dilutes and weakens them. It is from three to three and one-half times as effective as soluble capsules dissolving in the crop, or liquids deposited in the crop with a syringe.

Eighty-five per cent of poultry troubles are of intestinal origin through the development of worms and bacteria. Before the invention of the Gizzard Capsule by Geo. H. Lee, it was practically impossible to efficiently rid chickens of worms, because a worm medicine given by the mouth, the only possible way, had first to pass through the crop, stomach and gizzard and was largely absorbed, its strength and potency wasted, before it reached the worm-infected intestines.

Two Sizes

	Chick	Hen
50.....	\$.65	\$1.00
100.....	1.00	1.75
250.....	2.50	4.00
500.....	4.50	7.00
1000.....	8.00	12.00

CYCLONE SEED SOWER



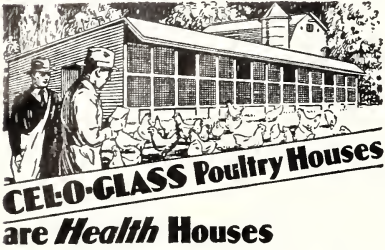
Well known for its accuracy in sowing nearly all kinds of seeds, fertilizers, etc., broadcast. Carried comfortably by strap over shoulder, not around neck. Built right and works right. Directions.

Price, \$2.50; 25c more will deliver to 4th zone.

PLACE ORDERS
FOR
BABY CHICKS
NOW

See Inside Front Cover

POULTRY AND CHICK SUPPLIES



CEL-O-GLASS

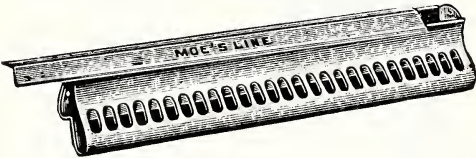
Better than glass. Used on poultry houses, barns, and hot beds. Comes in rolls, 3 by 100 ft. Sold by running foot, 1x3.
Per ft..\$.40
Per roll 38.00

EGG SCALE



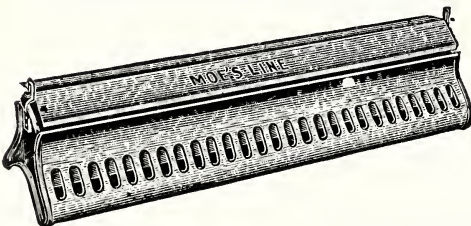
Egg grading will get you higher prices for your eggs. Weighs all grades. Each \$1.00.

LARGE CAPACITY FEEDERS



No. 140—21 in.....\$1.35 No. 141—35 in.....\$1.90

TILTING TOP CHICK FEEDER



Chicks cannot perch on this feeder.
35 in. long.....\$2.25 each

TOE PUNCH

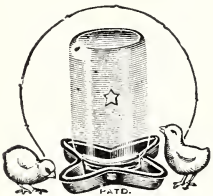
Popular for marking baby chicks.
Each.....20c



STAR FOUNTAINS

Fits any Mason jar and can be used with either quart or half gallon jars. Chicks cannot get wet in this fountain.

Each10c
6 for50c
Doz.95c



ECLIPSE FEEDERS



Heavily tinned and can be used for buttermilk or mash feeding.
20 in. feeder.....35c

SERVALL FLOAT FOUNTAIN

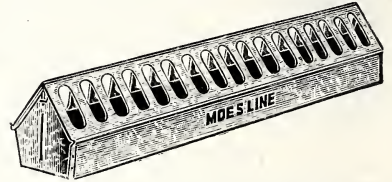
An automatic float which regulates the flow of water to fountain. Is easily attached to water feed pipe into poultry house and keeps fresh water coming into fountain as needed.

Postpaid prices. Each.....\$1.00

NEW LARGE CAPACITY CHICK AND GROWING PULLET WATER FOUNTAIN

1 gal.....\$.85
2 gal.....1.10

NEW FEEDER



Large capacity for growing pullets.
36 in. length.....\$1.50

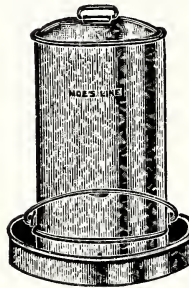
TOP FILL FOUNTAINS

Sanitary and easily cleaned. Made of heavy galvanized steel.

1 gal.....\$1.75
2 gal.....2.75

TURKEY BELLS

Made with bell metal, fitted with leather strap and buckle. Each.....25c



LEG BANDS

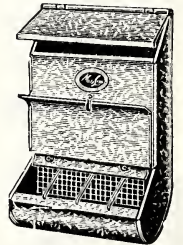
Numbered
Aluminum, Adjustable
Per doz. 15c; 25 for 25c;
50 for 40c; 100 for 75c

DRY MASH HOPPERS

Wall hoppers for all sized flocks of chickens.
12 in. front, each..\$1.95
24 in. front, each.. 2.75

BUCK 12-DOZEN EGG CRATE

Made of wood, cardboard fillers. Very light, but strong; metal corners; holds 12 dozen eggs; lock wire bale, wooden handle. (P. P. weight 5½ lbs., set up.) 12-Doz. Size, Each \$1.00, postpaid.

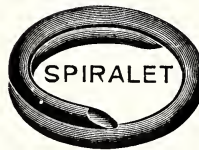


SPIRAL LEG BANDS

Hen Pullet and Chick Sizes

Comes in assorted colors; in ordering state color preferred. 50 in bundle.

Price, postpaid, 1c each; 50 for 35c; 100 for 65c.



BANDETTES

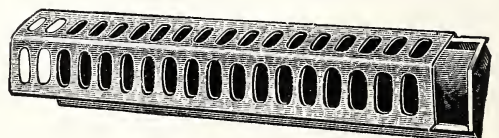
Used where numbering is desired. Easy to place on chickens.

Boxes, 25 per box.....\$.50
100 for.....1.85

Postpaid

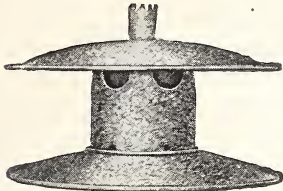


NEW STYLE FEEDERS



A large capacity chick feeder.
36 in. feeder.....90c 24 in. feeder.....70c

BABY CHICKS, See Inside Front Cover



PUTNAM BROODER STOVE

On oil burner that is good to use for small bunches of chicks. Full instructions for making small brooder. **Each \$4.75.**

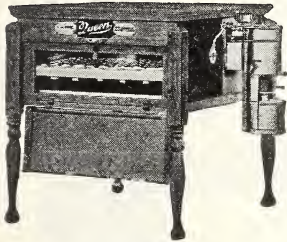
LITTLE PUTNAM STOVE

You can keep the water in the poultry yard from freezing with one of these stoves. Use under any fountain or even under a bucket of water. Use for heat in oats sprouter and numerous other ways. Three pints of coal oil runs it a month without any attention. Not even trimming the wick. A big little thing at a little price, only **\$1.95 each**, in galvanized iron. Aluminum, **\$2.95 each**, 25c extra will deliver it to 4th zone.



Queen Incubators and Brooders

NEW LOW PRICES



Standard

		Prices F. O. B. Lewiston	
		Regular Price, 1930	Special Low Price, 1931
No. 21K—	130 Egg.....	\$ 31.00	\$21.60
No. 22K—	220 Egg.....	40.50	29.10
No. 5 —Standard	400 Egg.....	82.00	52.16
No. 25 —Standard	600 Egg.....	107.50	73.30
No. 35 —Standard	825 Egg.....	135.00	90.00

COAL BROODERS

		Regular Price, 1930	Spec. Low Price, 1931
No. 1—4 in. collar,			
42 in. canopy....	\$23.00		\$16.50
No. 2—3 in. collar,			
52 in. canopy....	25.00		19.50

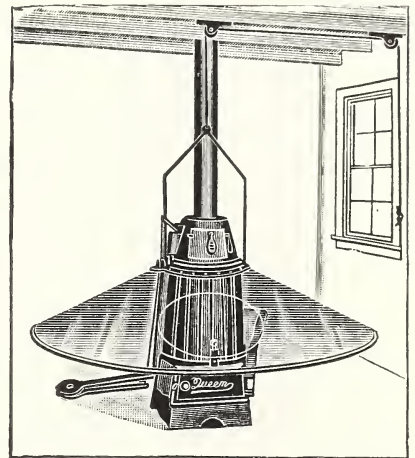
OIL BROODERS

No. 52—500-chick size oil burner....**\$16.75**



EXTRAS AND REPAIRS

	Postpaid
Wafers, 3 in. for "K" and Brooder Stoves.....	\$.75
Wafers, 4 in. for Standard Queen Incubators.....	1.00
Thermometers, Incubators	1.00
Thermometers, Brooders	1.00
Combination fuel for incubator.....	.50
Lamp complete for "K" Machine (state size and model).....	2.00
Lamp complete for Standard (state size and model).....	2.50
Expansion Cup (state size and model).....	.75
Regulator Complete	3.50
Wicks, blue flame, each 5c; per dozen.....	.50
Turning Trays, small.....	4.50
Turning Trays, large.....	6.50



Brooder Stove

MAKOMB OIL BURNERS

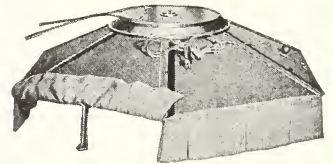
Simple oil burner of rigid construction. Wire edged canopy and brazed oil lines. No leveling or priming.

32 in. Canopy.....	\$ 9.50
42 in. Canopy.....	10.50
52 in. Canopy.....	11.50

ELECTRIC BROODERS

Holds heat and gives chicks oxygen. Four points by which you can judge brooder stove are: (1) Insulation. (2) Circulation. (3) Positive regulation. (4) Economy.

42 in. canopy.....	\$15.00
52 in. canopy.....	20.00
62 in. canopy.....	25.00



JUNIOR ELECTRIC

A small electric brooder that can be used for brooding a few chicks in the back yard.

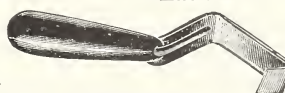
22 in. canopy.....	\$3.25
30 in. canopy.....	6.50



GARDEN TROWEL
Each 20c



STEEL WEEDER
Each 20c



HAND WEEDER, Each 20c



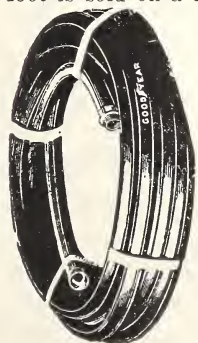
MOE'S LINE
TRANSPLANTING
TROWEL, 20c

Garden Supplies

GOODYEAR GARDEN HOSE

This hose will need no introduction and every foot is sold on a money back guarantee.

You must see this hose to appreciate the wonderful values that we offer in this line. Sold in 50-foot lengths with couplings.



Elm Hose—Will give indefinite service, low cost, 50-ft., coupled, **\$4.25.**

Glide — 5/8 molded, black hose, **\$4.75.**

Wingfoot — 5/8 black, high quality garden hose, **\$5.25.**

Emerald—Green hose, very high quality and we ask you to compare this hose to any other offered. 50 ft., **\$8.85.**



Hudson Favorite

A high pressure sprayer of first quality. Holds 4 gallons. Tank is riveted at all seams, then heavily soldered. Pump is seamless brass tube. Top and handle are of malleable. Discharge equipment includes 27-in. hose, 18-in. extension rod and automatic shut-off. Nozzle has various discs for different types of spray. The Favorite handles white wash, Paris Green, water paint and many other liquids.

Brass Each ..\$9.00
Galvanized
Each 6.50



Hudson Economy

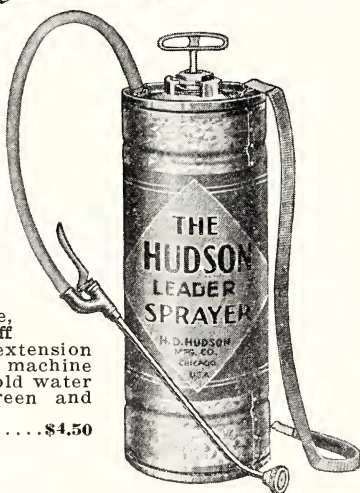
Constructed along the lines of the Favorite, 4-gallon capacity, seamless brass pump, malleable top and handle. Tank has riveted side seam. All seams are heavily soldered. Sprayer tested to 90 pounds pressure. Discharge equipment includes 24-in. hose and 12-in. brass extension rod. Also has automatic shut-off and Perfection nozzle. Handles all liquids. A very good sprayer at a favorable price.

Each\$5.50

Hudson Leader

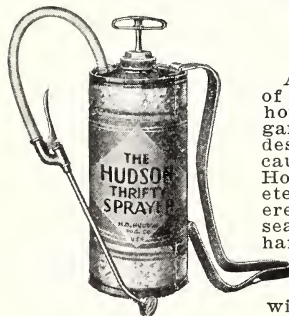
An efficient, durable compressed air sprayer at a very moderate price. Tank holds 3 3/4 gallons. All seams heavily soldered, side seam riveted. Has T-shaped handle, friction type top. Pump is seamless brass tube with bronze valve. Discharge equipment includes 20-in. hose, automatic shut-off and 12-in. brass extension rod. A splendid machine for whitewash, cold water paints, Paris Green and other fungicides.

Each\$4.50

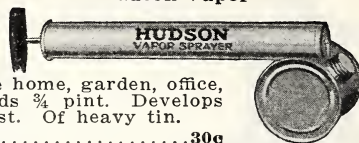


Hudson Thrifty

A compressed air sprayer of smaller capacity for the home owner, back yard gardener, etc. Especially desirable for women because of its lighter weight. Holds 2 gallons. Tank riveted at side seam and soldered at top and bottom seams. Has malleable T handle and cap. Same discharge equipment as on Leader. Pump of seamless brass tube with ball valve. Each, \$4.35.



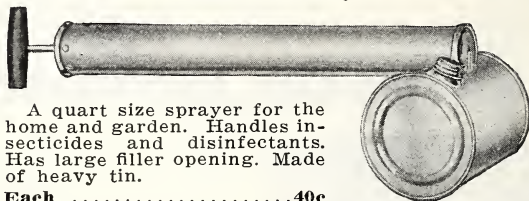
Hudson Vapor



For the home, garden, office, etc. Holds 3/4 pint. Develops a fine mist. Of heavy tin.

Each30c

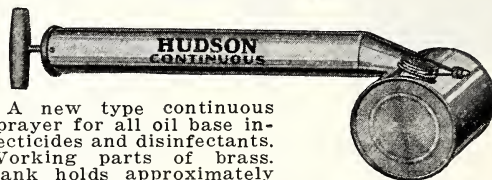
Hudson Handy



A quart size sprayer for the home and garden. Handles insecticides and disinfectants. Has large filler opening. Made of heavy tin.

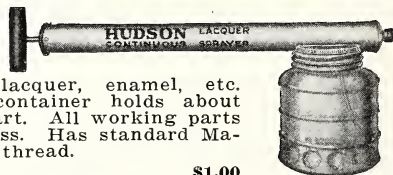
Each40c

Hudson Continuous



A new type continuous sprayer for all oil base insecticides and disinfectants. Working parts of brass. Tank holds approximately one quart. Each.....60c

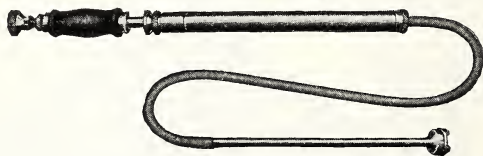
Hudson Lacquer Sprayer



For lacquer, enamel, etc. Glass container holds about one quart. All working parts are brass. Has standard Mason jar thread.

Each\$1.00

Hudson Trombone



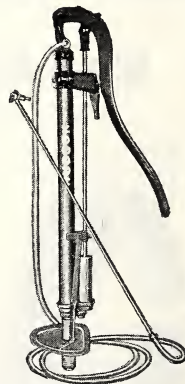
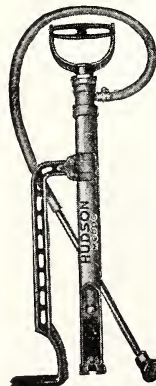
A splendid pump for whitewash, stock dips, creosote, etc. Uses any size container. Made entirely of brass except hand grip. Develops high pressure.

Each\$4.75

Hudson Barrel Pump

A very powerful barrel pump. Develops 200 pounds working pressure. Equipped with special non-clogging strainer and dasher type agitator which cleans it at each stroke of pump. Has 6 feet hose and 4 feet of iron extension. Ideal angle nozzle. Handles all liquids, easy to clean and extremely well made.

Each\$14.75



Hudson Modoc

A very efficient bucket pump, continuous and double acting. All brass pump cylinder and valve assembly. Adjustable foot rest. Handles whitewash, oils, water paint and many other liquids.

Each\$4.25

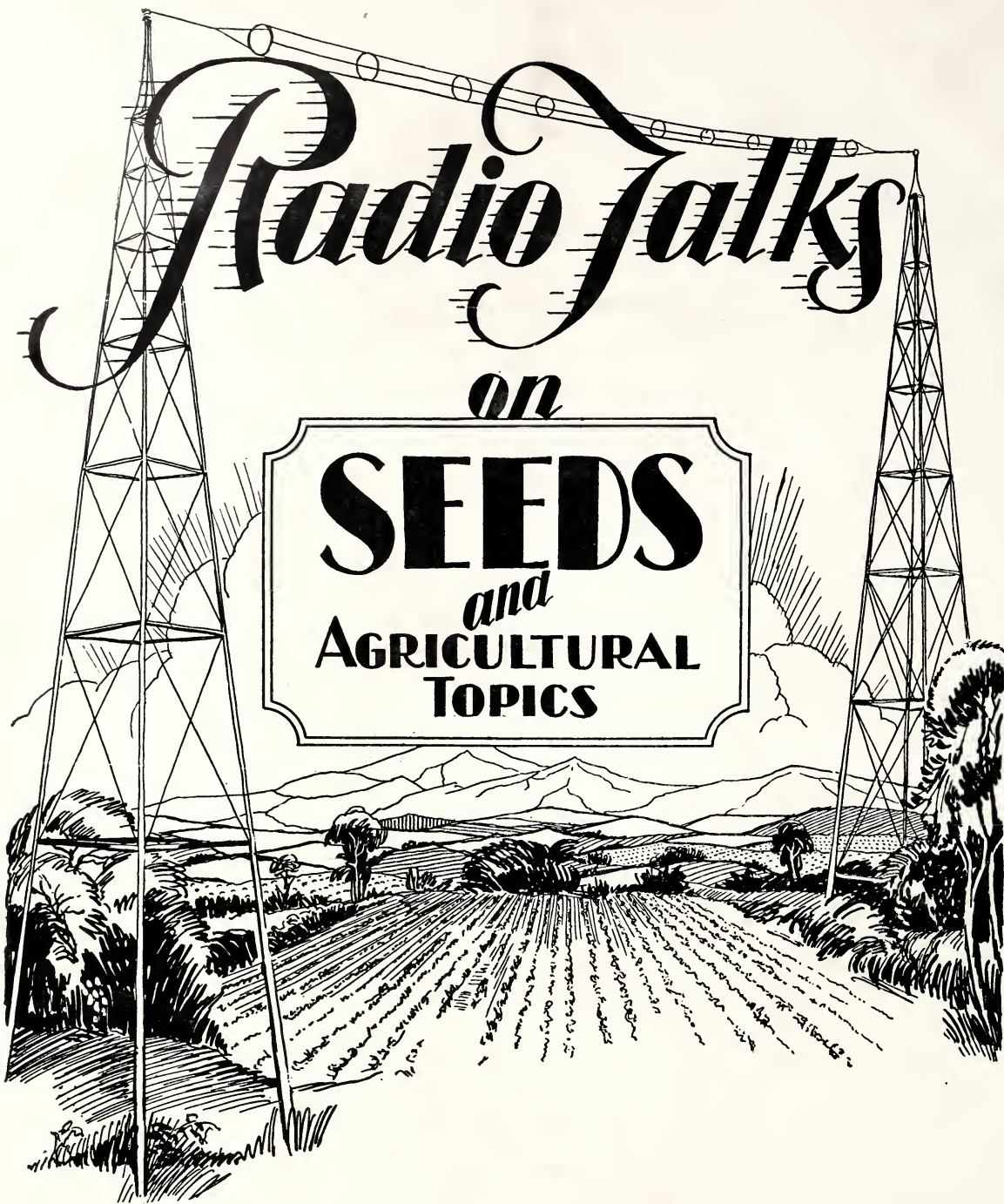
VEGETABLE PLANTING TABLE

Kind of Vegetable	Seed or roots required for 100 ft. of drill	One Acre	Distance for Plants			Depth of planting	Ready for use after planting
			Rows Apart		Plants apart in row		
			Horse Cult.	Hand Cult.			
Asparagus Seed	1 oz.	5 lb.	30-36 in.	1-2 ft.	3 in.	1 in.	2 years
Beans, Bush	1 lb.	25-40 lb.	30-36 in.	18-24 in.	2 in.	2 in.	40 to 75 days
Beans, Pole	½ lb.	20-35 lb.	3-4 ft.	3 ft.	2 ft.	2 in.	60 to 90 days
Beets and Mangels	2 oz.	5-6 lb.	28-36 in.	12-18 in.	16-24 in.	1 in.	45 to 60 days
Brussels Sprouts	½ oz.	4-6 oz.	30-36 in.	24-30 in.	16-24 in.	½ in.*	90 to 100 days
Cabbage, Early	⅛ oz.	4-6 oz.	30-36 in.	24-30 in.	12-18 in.	½ in.*	90 to 100 days
Cabbage, Late	⅛ oz.	4-6 oz.	30-40 in.	24-30 in.	16-24 in.	½ in.*	100 to 115 days
Carrot	1 oz.	3-4 lb.	30-36 in.	18-24 in.	2 in.	½ in.	100 days
Cauliflower	⅛ oz.	2 oz.	30-36 in.	24-30 in.	14-18 in.	½ in.*	90 to 110 days
Celery	¼ oz.	4 oz.	3-5 ft.	18-36 in.	6 in.	⅛ in.*	120 to 150 days
Corn, Sweet	¼ lb.	6-8 lb.	3-3½ ft.	2-3 ft.	2-3 ft.	2 in.	50 to 95 days
Cucumber	½ oz.	2 lb.	4-6 ft.	4-6 ft.	3 ft.	1 in.	50 to 70 days
Dill	1 oz.	3 lb.	30 in.	18-24 in.	3 in.	½ in.	60 days
Egg Plant	⅛ oz.	4 oz.	30-36 in.	24-30 in.	18 in.	½ in.*	125 to 140 days
Endive	1 oz.	2 lb.	30 in.	18 in.	12 in.	½ in.	100 days
Kale, Dwarf	¼ oz.	1 lb.	30-36 in.	18-24 in.	12 in.	½ in.	50 to 60 days
Kohl Rabi	¼ oz.	1 lb.	30-36 in.	18-24 in.	12 in.	½ in.	50 to 70 days
Leek	½ oz.	4 lb.	30-36 in.	14-20 in.	4 in.	½ in.	115 to 140 days
Lettuce	¼ oz.	1-2 lb.	30 in.	12-18 in.	6 in.	½ in.	60 to 80 days
Muskmelon	½ oz.	2-3 lb.	6-8 ft.	6 ft.	4 ft.	1 in.	85 to 110 days
Watermelon	1 oz.	3-4 lb.	6-10 ft.	6 ft.	6 ft.	1 in.	90 to 120 days
Mustard	1 oz.	1-2 lb.	30-36 in.	12-18 in.	6 in.	½ in.	70 to 90 days
Okra	2 oz.	8 lb.	4-5 ft.	3-4 ft.	2 ft.	1 in.	90 to 125 days
Onion, Seed	½ oz.	4 lb.	24-36 in.	12-18 in.	2-4 in.	½ in.	125 to 150 days
Onion, Sets	1 qt.	.....	24-36 in.	12-18 in.	2-4 in.	½ in.	60 to 90 days
Parsley	½ oz.	3 lb.	30-36 in.	18-24 in.	3-4 in.	⅛ in.	65 to 90 days
Parsnip	½ oz.	3 lb.	30-36 in.	18-24 in.	3-4 in.	⅛ in.	120 to 130 days
Peas	2 lb.	60-120 lb.	30-36 in.	18-24 in.	2-4 in.	3 in.	50 to 65 days
Peppers	⅛ oz.	2 oz.	30-36 in.	18-24 in.	15 in.	½ in.*	130 to 150 days
Potatoes, Irish	5-10 lb.	800-1000lb.	30-36 in.	24-36 in.	14-20 in.	4 in.	90 to 150 days
Pumpkin	½ oz.	3-4 lb.	4-8 ft.	3-6 ft.	3 ft.	3 in.	75 to 90 days
Radish	1 oz.	10 lbs.	24-36 in.	12-18 in.	1 in.	½ in.	30 to 60 days
Rhubarb, Seed	½ oz.	.....	3 ft.	3 ft.	2 ft.	½-1 in.	3 years
Rutabagas	½ oz.	2-3 lb.	30-36 in.	18-24 in.	6 in.	1 in.	75 to 90 days
Salsify	2 oz.	10 lb.	30 in.	18-24 in.	2 in.	1 in.	130 to 150 days
Spinach	1 oz.	8-9 lbs.	30-36 in.	12-24 in.	2 in.	1 in.	45 to 60 days
Squash, Bush	½ oz.	3 lb.	3-4 ft.	4-8 ft.	3 ft.	1 in.	65 to 70 days
Squash, Late	½ oz.	2 lb.	4-8 ft.	4-8 ft.	5 ft.	1 in.	125 to 140 days
Tomato	⅛ oz.	2 oz.	3-5 ft.	3-4 ft.	3 ft.	½ in.*	125 to 150 days
Turnips	½ oz.	2 lb.	24-36 in.	18-24 in.	4 in.	½ in.	45 to 75 days

*Seed should be started in hot bed or cold frame and plants set out in season. Plants susceptible to frost should not be set out until frost danger is passed.

FIELD SEED PLANTING TABLE

Kind of Crop	Rate of Seeding		Time of Seeding	Remarks
	Alone	In Mixtures		
Alfalfa.....	8-12 lb.	4-6 lb.	March, April, Aug.	Fall seeding under irrigation
Sweet Clover.....	10-15 lb.	4-5 lb.	March, April, Aug.	Unhulled seed may be fall sown
Red Clover.....	8-12 lb.	3-4 lb.	March, April, Aug.	Crop sometimes lives 3 years
Alsike Clover.....	3-6 lb.	2-3 lb.	February to April	Generally sown with other grasses
White Dutch Clover.....	2-4 lb.	1-2 lb.	February to April	Generally sown with other grasses
Winter Vetch.....	25-40 lb.	20-30 lb.	Spring or Fall	Grown with winter rye for hay
Spring Vetch.....	40-50 lb.	20-40 lb.	Spring	Grown with oats for hay
Rape.....	5-12 lb.	2-6 lb.	Spring	Excellent for hogs and sheep
Timothy.....	10-12 lb.	5-7 lb.	Spring or Fall	
Orchard.....	12-15 lb.	5-7 lb.	Early Spring	Use in mixture with Brome and Slender wheat
Brome.....	12-16 lb.	5-7 lb.	Early Spring	Drought resistant
Slender Wheat.....	12-15 lb.	5-6 lb.	Early Spring	Drought resistant
Meadow Fescue.....	15-18 lb.	5-8 lb.	Early Spring	Grows best on wet land
Red Top.....	6-8 lb.	2-5 lb.	Early Spring	Grows best on wet land
Sudan.....	5-30 lb.	.....	After Frost	Drill in rows or broadcast
Sunflower.....	10-20 lb.	.....	April and May	Plants 8-10 in. in rows 3 ft. apart
Corn.....	8 lbs.	.....	May and June	3 ft. in rows 3½ ft. apart
Wheat.....	60-75 lb.	.....	Depends on variety	
Oat.....	60-75 lb.	.....	Early Spring	
Barley.....	50-60 lb.	.....	Spring and Fall	
Rye.....	30-70 lb.	.....	Spring and Fall	Winter rye can be sown in spring with sweet clover
Field Peas.....	90-150 lb.	March to May	Sow 3 to 4 in. deep with grain drill
Beans.....	25-40 lb.	After Frost	



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